SCIENTIFIC AMERICAN

Cumulative Index 1948-1978

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Index to the 362 issues from May, 1948, through June, 1978

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Preface

This Cumulative Index embraces, inclusively, all issues of Scientific American from May, 1948, (the first under the magazine's present editorial direction) through June, 1978.

References are by year, month and page of issue, in that order; thus, the entry "1954 Aug. p. 77" refers to page 77 of the August, 1954, issue. The Index consists of eight independent parts, each alphabetically arranged, as follows:

Index to Topics offers access to the subject matter covered in 2,964 articles and some 3,500 "Science and the Citizen" items published in 362 issues indexed. This is a rotated key-word index. That is, the topics covered in a given article or item are cited by "key words" (average of seven per article and two per item). The key words are entered together in a cluster, and each key word takes its turn as the first term in the cluster in its entry and reentry down through the alphabet of this Index. Thus:

DNA, double helix, X-ray crystallography, genetic code, structure of DNA resolved 1954 Oct. p. 54-61 [5] double helix, DNA, X-ray crystallography, genetic code, structure of DNA resolved 1954 Oct. p. 54-61 [5] genetic code, DNA, double helix, X-ray crystallography, structure of DNA resolved 1954 Oct. p. 54-61 [5] X-ray crystallography, DNA, double helix, genetic code, structure of DNA resolved 1954 Oct. p. 54-61 [5]

In most cases, a secondary descriptive phrase, highlighting some aspect of the entry (in the example above: structure of DNA resolved) rides along with the rotating key words. Each entry is designed to serve, therefore, as a "mini-abstract" of the original.

Entries that begin with the same key word are listed in chronological order; articles are listed first, and "Science and the Citizen" items follow.

Articles are referenced by first and last page numbers (thus: 1978 June p. 60-72); "Science and the Citizen" items, by first page number (thus: 1978 June p. 74).

References to about one third of the articles close with a one- to four-digit number in brackets (in the example above: [5]); this is the Offprint number and identifies articles republished as Offprints by W. H. Freeman and Company (660 Market Street, San Francisco, California 94104).

Listing of Tables of Contents in chronological order permits ready identification, by titles and authors, of the articles cited in the foregoing index.

Index to Authors lists all authors of articles.

Index to Titles lists all articles by the first word in the title (exclusive of "The" or "A") and by the other key words in the title. "Underwater Archaeology in the Maya Highlands" thus appears under "Archaeology" and "Maya" as well as "Underwater."

Index to Book Reviews lists longer book reviews. The section is divided into three parts: Authors of books reviewed, Titles of the books and Reviewers.

Index to Mathematical Games lists the puzzles, games and diversions presented in the department since its inception in January, 1957, under editorship of Martin Gardner. It also includes Gardner's article on Flexagons (December, 1956) and the "twelve-ball" problem that cropped up in "The Amateur Scientist" in 1955.

Index to The Amateur Scientist lists the projects, experiments and demonstrations presented in this department from April, 1952, through February, 1976, (under the editorship of A. G. Ingalls until April, 1955, and thereafter under the editorship of C. L. Stong) and from July, 1977, through June, 1978, under the editorship of Jearl Walker.

Index to Proper Names lists the names of all persons mentioned in the articles or "Science and the Citizen" items and of places and institutions featured in a primary role.

The indexing was accomplished with collaboration of Excerpta Medica B. V., of Amsterdam; Infonet B. V., of Amsterdam, conducted the computer processing of the entries and composition of the pages.

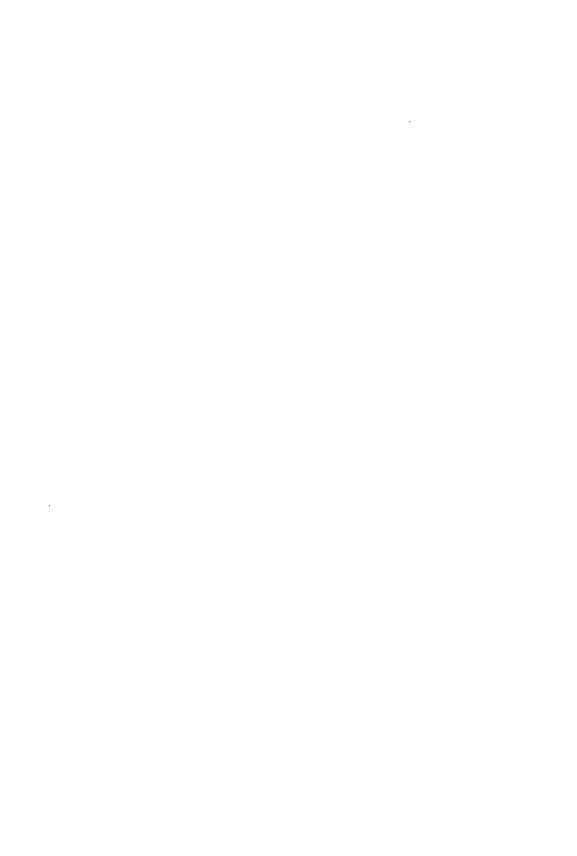
THE EDITORS

November, 1978

BOARD OF EDITORS: Gerard Piel (Publisher), Dennis Flanagan (Editor), Francis Bello (Associate Fditor), Philip Morrison (Book Editor), Judith Friedman, Brian P. Hayes, Paul W. Hoffman, Jonathan B. Piel, John Purcell, James T. Rogers, Armand Schwab, Jr., Jonathan B. Tucker, Joseph Wisnossky, and K. Chester (up to April, 1952). Albert G. Ingalls (up to April, 1955), E. P. Rosenbaum (up to June, 1963), James R. Newman (up to July, 1966), Leon Svirsky (up to May, 1974), C. L. Stong (up to February, 1976).

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three scientists, two laymen	1961 May p 74	aerothermodynamics, heat, propulsion, energy transformation, laminar flow, turbulence, high temperatures propulsion
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first female commissioner	1964 May p 60	Afar triangle, Red Sea, Rift Valley, guyot, Gulf of Aden, sea-floor
Aegyptopithecus, primate evolution, hominoid, fossil pi		spreading, continental drift, sea-floor spreading opens new ocean
man-apes, Fayum, Oligocene ancestor of hominoid		1970 Feb p 32-40 [891]
	Dec p 28-35 (636)	afforestation, soil erosion, irrigation, agricultural technology, poverty,
aequorin, ATP, muscle contraction, calcium, barnacle, l		economic development, Mediterranean Project, United Nations
	pr p 84-93 [1175]	1960 July p 86–103
aerial mapping, aerial photography, airborne radar, all-	weather imaging,	aflatoxin, carcinogenesis, Aspergilles flavus 1964 Nov p 60
radar, radar holography, side-looking radar		Africa, termite, entomology, insect behavior, air conditioning,
	Oct p 84-95 [386]	airconditioned termite nests 1961 July p 138-145
aerial photography, natural resources, infrared photogra		marriage, sister exchange, marriage contracts 1975 Dec p 84-94
sensing, multiband camera, remote sensing of natu		Bantu language, Early Iron Age culture, language diffusion, linguistics 1977 Apr p 106-114
	968 Jan p 54-69	African drum language, communication, drums, gong language, talking
aerial mapping, airborne radar, all-weather imaging, i		
	Oct p 84-95 [386]	drums 1971 Dec p 90-94 African hominids, brain evolution, fossil hominid brains hominid, human
aerial plankton, animal migration, species dispersion, in agricultural pest, entomology, wind-borne dispersal	sect physiology,	brain, pongid brains, endocranial casts 1974 July p 106-115 [686]
	3 Dec p 132-138	African rifts, gravity, ocean floor, mid-ocean ridge, oceanography,
aerobic metabolism, chloroplast, oxygen cycle, photosyn		discovery of submarine rifted ridge 1960 Oct p 98-110
ozone, oxidation-reduction reactions, geological rec	ord, oxygen-	'after effects', human eye, optical illusion, vision, sensory perception,
carbon balance 1970 Sept	p 110~123 [1192]	visual cortex, 'cortical satiation' 1962 Jan p 44-49
ATP, muscle, glycolysis, aerobic metabolism, oxygen o	debt, lactic acid	afterimages, color vision, photochemistry, sensory discrimination, visual
formation, anaerobic metabolism, energy mechanism	ms in muscle	pigments, photochemistry of color perception
1972 Mai	rp 84-91 [1244]	1963 Oct p 84–93 [1089]
ATP, muscle, glycolysis, oxygen debt, lactic acid forma	ation, aerobic	phosphenes, vision, perception, prosthesis for blind, self-illumination of visual centers 1970 Feb p 82-87
metabolism, anaerobic metabolism, energy mechani	sms in muscle	negative aftereffects, optical illusion, visual perception
	p 84~91 [1244]	1976 Dec p 42-48 [574]
see also oxidative phosphorylation	ana sound	Agamemnon, Mycenaean civilization, Classical archeology, burial
aerodynamic whistles, feedback, vortex, edge tone, hole to waves, whistles, flutes, organs and rocket engines 15	770 Jan n 40-46	treasure, dig started by Schliemann continues 1954 Dec. p. 72-78
aerodynamics, shock waves, shadow photography, speed	of sound. Mach	agammaglobulinemia, gene expression, alkaptonuma, Wilson's disease,
cones, ballistics	19 Nov p 14-19	congenital anomalies, chemistry of hereditary disease, one gene-one
	52 Apr p 24-29	enzyme hypothesis 1956 Dec p 126-136
houndary layer, airfoil, laminar flow, turbulence 193	54 Aug p 72-77	bacterial infection, blood proteins, gammaglobulin, antibodies,
hadges suspension hadges, harmonic oscillation 193	4 Nov p 60-71	immunology, tissue grafts, hereditary immunological deficiency 1957 July p 93-104
bird flight, weight-strength ratio, bone structure, respir	atory air sacs,	immunology, value of normally unhygienic environment
birds as flying machines 193	is mar p co-90	1958 Oct p 56
insect flight, locust, wind tunnel, efficiency of locust flight	Mar n (10~124	agar, algae, phytoplankton, kelp, food chain, algin 1952 Dec p 15-17
ailerons, aircraft design, smoke tunnel, airfoil, boundar	y layer, low-	Agassiz, glaciation, paleontology, natural history, Louis Agassiz,
speed flight	6 Apr p 46-51	fostering of science in America 1949 July p 48-51
-r v		

	economic development, industrialization, population control,
ge of elements, spectroscopy, age of universe, element formation, mass	
spectroscopy, nucleochronology, radioactive nuclei, stellar evolution,	technology transfer, food production, economic planning, India,
supernovae 1974 Jan p 69–77	economic development by democratic planning
cosmology, 'big bang' theory, 'closed' universe, 'open' universe,	1963 Sept p 189-206
universe expansion, deuterium abundance, average density	equatorial rain forests, tropical climate, laterization, developing
1976 Mar p 62–79	countries, lateritic soil 1964 Nov p 96–102 [870]
	food supply, human nutrition, population control, world food bank,
ge of universe, spectroscopy, age of elements, element formation, mass	human population 1974 Sept. p 160–170
spectroscopy, nucleochronology, radioactive nuclei stellar evolution,	
supernovae 1974 Jan p 69–77	1000 T
ige-sex distribution, fertility, US census, human resources, mortality	world food production 1972 Jan. p 45
rates population of U S 1951 Sept. p. 28–35	agricultural resources, land use, grazing, forestry, rangeland, land
US census, urbanization, baby boom, family size, central city,	management, U.S Western states 1970 Feb p 88-96 [1169]
suburbs, US census at 1960 1961 July p 39-45	gene manipulation, irrigation, photosynthesis, food and agriculture
education, US population, labor force, demographics, gross national	1976 Sept. p 164-178
education, O.S. population, labor force, demographics, gross national	agricultural revolution, slavery, Classical civilization 1949 June p 40-43
product, US census, more from the US census of 1960	New World archeology, mound builders, statistical senation
1962 Oct p 30–37	
agglutination response, cancer, cell membrane, immunology, lectins,	Mississippian culture, pre-Columbian Mississippi valley on verge of
proteins 1977 June p 108–119 [1360]	urban revolution 1952 Mar p 22–27
aggression, group behavior pecking order, social psychology,	Jarmo site, radiocarbon dating archeology, cave to village at Jarmo
experiments in group behavior 1956 Nov. p. 54–58 [154]	1952 Oct p 62–66
violence, delinquency, motion picture film, television, catharsis, effects	Neolithic archeology, tools, slash-burn agriculture, cultural evolution,
of observing filmed violence 1964 Feb p 35–41 [481]	Stone Age forestry and agronomy 1956 Mar p 36-41
rats, animal behavior, social behavior, territorial behavior, natural	Fertile Crescent, human evolution, cultural anthropology, Neolithic
rais, animai benavior, sociai benavior, territoriai benavior, natura	archeology, 8000 B C domestication of plants and animals
history, Rattus rattus Rattus norvegicus 1967 Jan p 78–85	~
aging, death, life expectancy, biology of senescence 1948 June p 40-43	1960 Sept. p 130–148 [605]
leaf shape, duckweed, systematic study of familiar amateur observation	demographics, population growth, cultural evolution, Industrial
1949 Oct. p 22–24	Revolution, population explosion, human evolution, historical
rottfer, life expectancy, experiments in aging, age of mother	perspective on human population growth, how many ever lived
1953 Apr p 38-42	1960 Sept. p 194-204 [608]
death rate, disease etiology, life expectancy, male female life	New World archeology Mexican agriculture, corn, urbanization, New
	World agricultural revolution 1964 Nov p 29-37 [625]
	cities, urbanization, Industrial Revolution, communication, origin and
death rate, life expectancy, comparative life spans in man and other	evolution of cities 1965 Sept p 54-63
animals 1961 Aug. p 108–119	1 1
cell physiology, gerontology, life expectancy, manifestations of aging	human population, food production, fertilizers, pollution, irrigation,
1962 Jan p 100-110	biosphere, soil erosion, biosphere capacity to produce food
collagen, tendons, biological age 1963 Apr p 104-114 [155]	1970 Sept. p 160–170 [1196]
fibroblasts, mitosis, cell culture, somatic cells, cell, DNA replication,	Hoabinhian culture, Neolithic archeology, Spirit Cave site, Thailand
experiments in aging 1968 Mar p 32-37 [1103]	1972 Apr p 34-41 [675]
radiation damage, free radicals, electron-spin resonance, chemical	agricultural society, Macedonia, Nea Nikomedeia, Neolithic village, clay
bond, spectroscopy, effects of free radicals on living systems	figurines, domestic animals, oldest Neolithic site in Europe
1970 Aug. p 70–83 [335]	1965 Apr p 82–92
gerontology, longevity, senility, medical care 1973 Sept. p 44–52	hunting, herding, food gathering, tribal cultures, abonginal culture,
cataract, eye lens, human eye, vision 1975 Dec. p 70-81	India, 'living prehistory' in India 1967 Feb p 104-114
cytochrome C for senility? 1949 Aug. p 24	agricultural system, Nabataean culture, irrigation, wadi, desert,
free radicals 1969 Mar p 50	restoration of Nabataean irrigation works in the Negev
Agora, Classical archeology, Athens 1950 Aug. p 46-51	1956 Apr p 39-45
Agricola, de re Metallica, woodcuts from Hoover translation	social values, Mormons, Zunis, Spanish-Americans, Navaho,
1951 Feb p 46-47	comparative study of cultures in New Mexico 1956 July p 25-31
agricultural economics, forage crops, grasses, agronomy, hay, legumes,	commerce, market, peasants, peasant markets in Haiti
livestock feed, ruminants, silage, Rhizobium bacteria	1960 Aug. p 112–122 [647]
1976 Feb p 60–75	chinampa, canals, drainage, Mexican agriculture, Aztec civilization.
food and agriculture, food processing, US agriculture, 'agribusiness'	
	highly productive farm plots, Aztec empire 1964 July p 90–98 [648]
1976 Sept. p 106–123	Arawak Indians, earthworks, flood plain, ridged fields, New World
agricultural system, cropping systems, food and agriculture	archeology 1967 July p 92–100
1976 Sept. p 98–105	water cycle, transpiration, evaporation, runoff, ocean, precipitation,
agricultural ecosystem, solar radiation, photosynthesis biosphere, climax	biosphere, photosynthesis 1970 Sept. p 98–108 [1191]
ecosystem, energy cycle, ecosystem, food chain, respiration,	animal husbandry, ecosystem, energy cycle, power, New Guinea,
biosphere energy cycle 1970 Sept p 64-74 [1190]	tropical agriculture 1971 Sept. p. 116–132 [666]
agricultural history, animal domestication, archeology, plant	agricultural economics, cropping systems, food and agriculture
domestication, food and agriculture 1976 Sept. p 88-97	1976 Sept. p 98–105
agricultural irrigation, canals, hydro-engineering, pipelines, Jordan Valley	agricultural technology, dust storms, drought, dry-land farming, soil
Plan, water supply, Israel, Jordan 1965 Mar p 23-31	reclamation, mulch, shelter belts, U.S. High Plains 1948
agricultural pest, alfalfa caterpillar, ecology, insecticide, life cycle, wilt	
disease, predation 1954 June p 38-42	fortilizers inscattands hashind al. 1948 Aug. p 7-11
bacteriology, biological pest control, insecticide, insect physiology	fertilizers, insecticide, herbicide, chemical agriculture
	1952 Aug. p 15–19
virology, entomology, living insecticides 1956 Aug. p 96–104	dust storms, dry land farming, Great Plains, marginal farmlands, wind
fire ants, dieldrin, pest control, insecticide 1958 Mar p 36-41	erosion 1954 July p. 25_20
corn borer, insect behavior, species specificity, corn, adaptation of	weed control insect herbivores, leaf-eating beetle, Klamath weed.
parasite to host 1958 May p 87-94	living herbicides 1957 July n. 56, 67
aerial plankton, animal migration, species dispersion, insect	trace elements, cobalt, desert ecology, land reclamation, vitamin R17
physiology, entomology, wind borne dispersal of species	synthesis, reclamation of infertile Austrialian land
1963 Dec. p 132–138	
agricultural production, poverty, education, economic development,	1959 Jan p 97-106 Negev desert, imgation, desert ecology, land reclamation, Israel, desert
language, Peru literacy, Cornell-Peru experiment in economic	reclamation 1960 Mars 1960
development 1957 Jan. p 37-45	rectamation 1960 Mar p 54-63 collerosion, irrigation, poverty, economic development, afforestation,
	MALEGUOUS DUISLINS CLINICITIC OPLEIONMENT AFFORMANS
	Mediterranean Project, United Nations 1960 July p 86–103

economic development, technology transfer, human nutrition, food	
production, nutritional self-sufficiency in economic development	ailerons, aircraft design, aerodynamics, smoke tunnel, airfoil, boundary
production as the sufficiency in economic development	idyer, low-speed flight 1056 Apr = 46 51
sconomic development industrialization 1963 Sept p 72–80 [1153]	air-preatting tisties, evolution, lungfish, Devonian period fish
economic development, industrialization, national economic policy,	physiology, conquest of land-breathing organs
Federal intervention in economic development of US South	1968 Oct p 102-111 [1125]
1963 Sept p 224-232	air conditioning, Africa, termite, entomology, insect behavior,
plant growth, food production, fertilizers, chemical industry, increasing	
World lood supply 1965 June p. 62-73	air conditioned termite nests 1961 July p 138–145
irrigation, ground water, artesian well. Sahara desert, water resource	air vent, wind tower, domed roof, architecture, cooling system, passive
management, land reclamation, intercalary water, 'fossil' water,	cooling systems in Iranian architecture 1978 Feb p 144-154 [705]
making desert fertile 1966 May p 21-29	heat storage in salt
poultry production, food production, animal husbandry, chicken, eggs,	air currents, soaring, wind velocity, thermal cells, aerodynamics,
US chicken factories 1966 July p 56-64	ornithology, bird flight, flight of soaring birds 1962 Apr p 130-140
People's Republic of China, industrial technology, economic	air drive, ultracentrifuge, molecular weight, sedimentation, fractionation,
development technology an December Describer of Class	oil drive, magnetic suspension, 900,000 g, 60 million r p m
development, technology in People's Republic of China	1951 June v 42~51
1966 Nov p 37-45	air masses, atmospheric circulation, hurricanes, upper atmosphere,
mechanical harvesting, cotton picker, tomato harvester, hay cuber,	tropical origin of hurricanes 1957 Aug p 33-39 [847]
cherry picker, grain combine 1967 Aug p 50-59	weather satellites, Tiros, telemetry, atmospheric circulation, heat
sulfur, sulfuric acid, Frasch process, sulfur demand-and-supply	budget of Earth, videocameras, photographic weather maps, weather
production 1970 May p 62-72	forecasting 1961 July p 80-94
land reform, food supply, population growth, FAO, human nutrition,	air pollution, catalysis, combustibility, fly ash, dust storms, metallurgy,
FAO Indicative World Plan 1970 Aug p 54-69 [1186]	fine particles 1950 Dec p 50-53
China, economic development, rice, hybrid wheat, hybrid rice,	smog, atmospheric inversion 1952 May p 15-19
irrigation, livestock 1975 June p 13-21	smog, 'blue haze', atmospheric inversion, particulates, ozone,
center-pivot irrigation, irrigation, ground water 1976 June p 90-99	
herbicide, mulch, weed control, tiliage without plow	
1977 Jan p 28-33 [1349]	camouflage, evolution, melanism, moths, speciation, population
	genetics, mutation, genetic variation, evolution observed
drip irrigation, irrigation, trickle irrigation 1977 Nov p 62-68 [1371] chemical revolution 1952 Apr p 36	1959 Mar p 48–53 [842]
	climate, carbon dioxide 'window', meteorology, fossil fuel, threat of
no-tillage farming 1968 Aug p 46	'greenhouse effect' 1959 July p 41–47 [823]
drip irrigation 1975 Aug p 48	bronchutis, emphysema, public health, smog, environmental health,
plowless farming 1975 Nov p 60	US cities, smog and public health 1961 Oct p 49-57 [612]
agriculture, see agronomy, agricultural system, agricultural technology	smog, automobile emissions, ozone, urban transport, air pollution
and the like	control in Los Angeles 1964 Jan p 24-31 [618]
agronomy, soil structure, chernozems, podzols, latozols, tundra, alluvial	aerodynamics, microclimate, micrometeorology, fluid dynamics,
soils, ecology of soil, soil erosion, the soils of the world and their	troposphere, meteorology, turbulence, atmospheric phenomena near
management 1950 July p 30–39	the ground 1964 Oct p 62-76
corn, hybrid corn, technology and promise of hybrid corn	cities, water supply, sewage disposal, smog, water pollution, taxation,
1951 Aug p 39-47	Los Angeles, New York, metabolism of cities 1965 Sept p 178-190
auxins, plant growth, oak, giberellin, function of plant growth hormone	automobile, electric automobile, battery, weight, cost, performance of electric automobile 1966 Oct p 34-40
1957 Apr p 125-134 [11]	
climate, plant growth, greenhouse, photoperiodicity, day-night	cities, climate, heat emission, heat pollution, microclimate, infrared photography, heat island, climate of cities
temperature, 'phytotron', environment simulator	1967 Aug p 15-23 [1215]
1957 June p 82–94	cloud seeding water cycle, water drop, ice crystals, fog, inversion layer,
Lysenko, genetics, potato virus, virus disease, vernalization, the	1000 5 74 03 (076)
Lysenko affair 1962 Nov p 41–49	air transport, technology assessment, science policy, automobile
irrigation, sea water, salt-water agriculture, and lands, salt tolerance	transportation, noise pollution, technology assessment institutions
1967 Mar p 89–96	proposed 1970 Feb p 13-21 [332]
plant hybrids, wheat, hybrid wheat, food production 1969 May p 21-29	nckets, vitamin D, ultraviolet radiation, osteogenesis, calcium
	metabolism, epidemiology, sunlight 1970 Dec p 76-91 [1207]
chemical mutagens, plant breeding 1971 Jan p 86-95 [1210]	chmate, atmospheric circulation, carbon dioxide 'window', particulates,
corn, lysine, plant breeding, plant protein, human nutrition, malnutrition, high-lysine corn 1971 Aug p 34-42 [1229]	ozone, temperature of Earth, human activity and climatic change
malnutration, high-lysine corn 1971 Aug p 34-42 [1229]	1971 Jan p 32-42 [894]
legumes, nutrogen fixation, soybean products, plant protein 1974 Feb p 14-21	corona discharge, electrocoating, fly ash, electrostatics, photocopying
grain, proteins, plant protein, plant hybrids, Triticale	xerography, electrostatic precipitation and seperation
grain, proteins, plant protein, plant hybrids, 1974 Aug p 72-80	1972 Mar p 46-58
disease-resistant plants, plant breeding, plant disease, fungal infection,	automobile engines, rotary engine, Wankel engine, auto engineering
plant pathogens, sugarcane, mechanism of disease resistance in	1972 Aug p 14-23
	Clean Air Act, emission standards, Environmental Protection Agency
plants agricultural economics, forage crops, grasses, hay, legumes, lives to the agricultural economics, forage crops, grasses, hay, legumes, lives to the seconomics agricultural economics.	1973 June p 14-21
feed, ruminants, silage, Rhizobium bacteria 1976 Feb p 60-75	evolution, melanism, moths, gene mutation, population genetics,
'green revolution', food and agriculture, maize, potatoes, Mexican	predation, evolution observed again 1975 Jan p 90-99 [1314]
19/6 Sept p 126~130	effect of rocket exhaust on upper-air 1963 Mar p 74
'arean revolution' India food and agriculture, technology transfer,	asbestos dust carcinogen 1964 Dec p 64
monegons impation fertilizers, rice, wheat, hybrid clop plants	Los Angeles carbon monoxide emission control 1965 May p 52
1976 Sept p 154-165	auto emission standards, safety standards 1965 Aug p 44
and a slow breeding rice wheat maize, food and agriculture,	moreused prosper
plant genetics 1970 Sept p 100 12	
Southern leaf blight 1970 Oct p 54	
-lant origins su eet notato	
high protein sarahum	low-pollution automobile engines 1971 Sept p 80 automobile engines, catalytic converter 1973 Apr p 44
1 last collected crons	LPG for internal combustion fuel? 1973 Sept p 69
1970 Oct p 00	automobile exhaust-emission standard 1975 Apr p 53
all anthus, city trees, pollution effects, tree cloning, gringo, London plants	automobile engines, fuel economy 1977 Jan p 43
Norway maple 1976 Nov p 110-118	ir pressure, acoustic pulses, lightning, thunder 1975 July p 80-90

air traffic control, air transport, radar	1952 June p. 64-65	Alaskan oil, Prudhoe Bay discovery 1968 Sept.	. p. 86
airport, transportation industry, radar	1960 Dec. p. 47-55	albatross, evolution, animal behavior, bird flight, sexual behavior,	
air transport, air traffic control, radar	1952 June p. 64-65	soaring, natural history 1970 Nov. p. 84–93	[1204]
aircraft landing, automatic pilot, blind landing, i		Albatross voyage, ocean floor, sonar, seismology, sedimentary cores,	
aircraft fanding, automatic phot, office fanding,	trolled approach	isotope dating, Swedish deep-sea expedition 1950 Aug. p.	42-45
system, precision approach radar, ground-con	1964 Mar. p. 25–35	albedo, Antarctica, climatology, solar radiation, atmospheric circula	tion
		Antarctica in Earth's heat budget 1962 Sept. p. 84–94	1 12501
cargo handling, shipping, containerization, auto	matic control, loading		
	1968 Oct. p. 80–88	wind, solar radiation, energy cycle, biosphere, atmospheric circula	mon,
technology assessment, science policy, automobi	ile transportation, air	climate, ocean circulation, terrestrial radiation, carbon dioxide	
pollution, noise pollution, technology assessm	ent institutions	'window', Earth energy cycle 1970 Sept. p. 54-63	[1189]
proposed	970 Feb. p. 13-21 [332]	asteroids, meteorites, planetisimal collisions, solar system formati	
accelerometer, aircraft navigation, navigation, ir		primordial dust cloud 1975 Jan. p.	24-33
gyroscope, commercial adaptation of military	and space technology	albinism, gene mutation, Siamese cat, visual cortex, white mink, whi	
gyroscope, commercial adaptation of minitary	1970 Mar. p. 80–86	tiger, cross-eyed trait 1974 May p. 44–54	
		associated with cross-eyedness in Siamese cats and white tigers	[127.]
air vent, air conditioning, wind tower, domed roof	, architecture, coomig	1973 Aug.	- 42
system, passive cooling systems in Iranian arc	emtecture		. p. 45
	8 Feb. p. 144-154 [705]	alchemy, transmutation, philosopher's stone, science history	
airbag, automobile design, automotive safety, seat	belts, crashworthiness	1952 Oct. p.	12-16
tests	1973 Feb. p. 78–86	alcohol, digestion, hydrochloric acid, aspirin, stomach mucosa, self-	
airborne infection, histoplasmosis, fungal infection	n, respiratory infection,	digestion safeguards 1972 Jan. p. 86-93	
epidemiology, coccidioidomycosis	1948 June p. 12-15	depresses appetite 1951 Jan.	p. 30
airborne radar, aerial mapping, aerial photography		in violent deaths 1951 Aug.	
radar, radar holography, side-looking radar), un violate 2154g-2,	cardiovascular reaction 1965 June	
radar, radar norography, side-rooking radar	1977 Oct. p. 84-95 [386]	alcohol metabolism, detoxification, drug inactivation, enzyme, liver	p. 5.
		function, metabolism of drugs, cirrhosis 1975 June p. 22–31	[1222]
airborne warning and control system aircraft, see: A	AWACS	alcoholism, fatty liver, liver function, malnutrition, 'empty calorie	
aircraft design, ailerons, aerodynamics, smoke tun			. *
layer, low-speed flight	1956 Apr. p. 46-51	acetaldehyde, cirrhosis 1976 Mar. p. 25–33	
aeronautics, vertical take-off aircraft	1960 Aug. p. 41–49	limit of metabolism 1952 Nov.	
aeronautics, supersonic flight, commercial aircr	aft, sonic boom,	alcohol tolerance, metabolism, drug abuse, liver function, acetaldehy	/de
aviation industry, technology and economics	of supersonic transport	1953 Dec. p.	86–90
	1964 June p. 25-35	alcoholism, metabolism, drunkeness, physiological individuality	
aeronautics, helicopters, helicopter flight, history	ry, future development	conditions effect of alcohol 1948 Dec. p.	50-53
,	1967 Apr. p. 38-46	alcohol metabolism, fatty liver, liver function, malnutrition, 'empt	v
aircraft landing, automatic pilot, blind landing, ai		calories', acetaldehyde, cirrhosis 1976 Mar. p. 25-33	
landing system, precision approach radar, gr		drug reinforces abstinence 1949 May	
	1964 Mar. p. 25-35	on the increase 1952 June	-
approach			
aircraft navigation, accelerometer, navigation, air		<u> </u>	
navigation, gyroscope, commercial adaptation		role of culture in etiology 1957 July	
technology	1970 Mar. p. 80–86	aldosterone, actinomyosin, ecdysone, cortisone, insulin, estrogens, go	ene
inertial guidance	1957 June p. 70	activation, RNA synthesis, growth hormone, ACTH, thyroxin,	
aircraft propulsion, gas turbine, centrifugal comp	ressor, axial-flow	mechanism of hormone action 1965 June p. 36–45 [[1013]
compressor, ducted fan, electric power gener		Aleutian culture, subverted by dories 1955 June	
	1953 Nov. p. 65-72	Aleutian Islands, Aleuts, Eskimo, genocide, Aleuts as 'Southern Eski	mos'
aircraft-wake vortexes, aerodynamics, contrails, f	light safety, jet flight,	1958 Nov. p. 11	2-124
wake turbulence	1974 Mar. p. 76–83	Aleutian Trench, ocean floor, topography, seamounts, fathogram, so	nar.
aircraft wing, aeronautics, speed of sound	1969 Sept. p. 95	echo-sounding, the Pacific floor 1952 Apr. p.	
Airflow automobile, automobile history, streamling		Aleuts, Eskimo, genocide, Aleutian Islands, Aleuts as 'Southern Eski	
	977 Aug. p. 98-106 [697]	1958 Nov. p. 113	
airfoil, aerodynamics, bird flight, soaring, therma		Alexander, archeological excavation, Phrygian civilization, Gordion,	700
and a south of the	1952 Apr. p. 24–29	B.C., preclassical Greek link with East 1959 July p. 100	0 100
boundary layer, laminar flow, turbulence, aero		alfalfa caterpillar, ecology, insecticide, life cycle, agricultural pest, wi	0-109
obundary rayer, raminiar now, furbulence, aero	1954 Aug. p. 72–77	disease predation	II
ailerons, aircraft design, aerodynamics, smoke		disease, predation 1954 June p. 1	38-42
		algae, phytoplankton, kelp, food chain, algin, agar 1952 Dec. p.	15–17
low-speed flight	1956 Apr. p. 46–51	chlorella, food production 1953 Oct. p. 1	31–35
aerodynamics, boomerang, computer graphics		lichens, symbiosis, fungi, desert ecology, polar ecology, symbiotic	
boomerang orbits	1968 Nov. p. 124–136	nature of lichens 1959 Oct. p. 144–156	[111]
airglow, Earth, aurora, corpuscular streams, sola		deuterium, reaction kinetics, metabolism of mammals, penicillin m	
aurora and airglow	1955 Sept. p. 140–150	heavy water biology 1960 July p. 106	5-116
atmosphere, ionosphere, solar radiation, ozone	e, oxygen atoms, upper	photosynthesis, chloroplast, oxidative phosphorylation, Calvin cyc	ele,
atmosphere, laboratory simulation, atomic		path of carbon in photosynthesis 1962 June p. 88–100	[122]
	1966 Mar. p. 102–110	lichens, fungi, symbiosis, fungi as symbionts in lichens	t1
atmospheric ionization, spectroscopy, atmosp	heric light,	1963 Feb n 123	7_137
photochemistry	1972 Jan. p. 78–85	coral, coral rings, fossil reefs, paleontology, climatic change, dating	hv.
airplane seats, should face stern	1951 Dec. p. 36	coral rings 1966 Oct. p. 26–33	5 0 y 10 7 1 1
airport, air traffic control, transportation industr	ry, radar	Acetabularia, giant cells, mermaid's wineglass, cell nucleus, cytopl	[0/1]
	1960 Dec. n. 47-55	giant cells in study of nucleus-cytoplasm interaction	asm,
alanine, RNA, nucleic acid, nucleotide sequence	tRNA enzyme	1066 Nov 119 1246	
cleavage, fragment assembly, first nucleotic	le sequence	1966 Nov. p. 118–124 [xylan, mannan, plant cell wall, cellulose, xylan, mannan in place of	1057]
	1966 Feb n 30_39 [1033]	cellulose in marine plant tissue 1968 June p. 102–108 f	t .
alarm reaction, stress, psychosomatic illness, kid	lnev disorder	cellulose in marine plant tissue 1968 June p. 102–108 [1110]
cardiovascular disease, adrenal gland	1949 Mar. p. 20–23 [4]	torest communities, nenens, ecology, food chain, nitrogen cycle, tre	eetop
wild rats stronger	1051 Dec p 42	1073 Tune n 74 00 f	17741
Alaska, Arctic, Stone Age hunters, Siberia, Gree	Poland Dorset culture	Dacteria, reguires, mirrogen lixation, nitrogenase, genetic engineesis	ng,
Circumbolar Stone Age culture	1064 1 02 00	historical process, rhizobium, legumes, symbiosis, nitrogenase,	_
New World archeology, Onion Portage site. I	ichima Darina land	0101021Call hitrogen titation	18–8
bridge, human migration, stone artifacts, g	ateway to America	angun bloom, blue-green bacteria, cyanobacteria, gas vacuoles	
e and and an	1968 June p. 24–33	1977 Aug n 00 07 f	13671
	1700 June p. 24-33	bacteria, photoelectric effect 1964 Mar.	p. 50

economic development, technology transl	fer, human nutrition food	ollarona oleanata teri	
production, nutritional self-sufficiency	in economic development	ailerons, aircraft design, aerodynamics, smok layer, low-speed flight	e tunnel, airfoil, boundary
	1963 Sept. p. 72-80 11153	air-breaking fishes, evolution, lungfish, Devo	1956 Apr. p. 46-51
economic development, industrialization,	national economic policy	physiology, conquest of land-breathing o	nian period, fish
Federal intervention in economic devel	opment of U.S. South		
	1963 Sept. p. 224-232	" Off Conditioning Africa termite and 1	1968 Oct. p. 102-111 [1125]
plant growth, food production, fertilizers,	chemical industry, increasing	airconditioned termite nests	
world food supply	1965 June p. 62-72	air vent, wind tower, domed roof, architectu	1961 July p. 138–145
irrigation, ground water, artesian well, Sa	hara desert, water resource	cooling systems in Iranian architecture	1978 Feb. p. 144-154 [705]
management, land reclamation, interca	lary water, 'fossil' water,	heat storage in salt	1971 Aug. n. 46
making desert fertile	1966 May p. 21-29		lls, aerodynamics.
poultry production, food production, anir U.S. chicken factories	nal husbandry, chicken, eggs,	ornithology, bird flight, flight of soaring b	pirds 1962 Apr. p. 130-140
People's Republic of China, industrial tec	1966 July p. 56-64	air drive, ultracentrifuge, molecular weight, sec	limentation, fractionation.
development, technology in People's Re	mology, economic	oil drive, magnetic suspension, 900,000 g;	
development, technology in 1 copie's Ki	1966 Nov. p. 37-45	-t	1951 June p. 42-51
mechanical harvesting, cotton picker, tom	ato harvester, hav cuber	air masses, atmospheric circulation, hurricanes	
cherry picker, grain combine	1967 Aug. p. 50–59	tropical origin of hurricanes weather satellites, Tiros, telemetry, atmosph	1957 Aug. p. 33–39 [847]
sulfur, sulfuric acid, Frasch process, sulfur	r demand-and-supply	budget of Earth, videocameras, photograp	hio weather more weather
production	1970 May p. 62–72	forecasting	1961 July p. 80–94
land reform, food supply, population grov	vth, F.A.O., human nutrition,	air pollution, catalysis, combustibility, fly ash, o	
F.A.O. Indicative World Plan	1970 Aug. p. 54-69 [1186]	fine particles	1950 Dec. p. 50-53
China, economic development, rice, hybrid	d wheat, hybrid rice,	smog, atmospheric inversion	1952 May p. 15-19
irrigation, livestock	1975 June p. 13-21	smog, 'blue haze', atmospheric inversion, par	ticulates, ozone,
center-pivot irrigation, irrigation, ground		peroxides, photochemistry	1955 May p. 62-72
herbicide, mulch, weed control, tillage with		camouflage, evolution, melanism, moths, spec	
and the forest control of the late of the first section of	1977 Jan. p. 28–33 [1349]	genetics, mutation, genetic variation, evolu	
drip irrigation, irrigation, trickle irrigation		Part As and the Part As Aut of the Assessment	1959 Mar. p. 48-53 [842]
chemical revolution	1952 Apr. p. 36	climate, carbon dioxide 'window', meteorolog	y, fossii fuel, threat of 1959 July p. 41-47 [823]
no-tillage farming drip irrigation	1968 Aug. p. 46 1975 Aug. p. 48	'greenhouse effect' bronchitis, emphysema, public health, smog, o	
plowless farming	1975 Nov. p. 60	U.S. cities, smog and public health	1961 Oct. p. 49-57 [612]
agriculture, see: agronomy, agricultural syste		smog, automobile emissions, ozone, urban tra	
and the like	,	control in Los Angeles	1964 Jan. p. 24-31 [618]
agronomy, soil structure, chernozems, podzol	ls, latozols, tundra, alluvial	aerodynamics, microclimate, micrometeorolog	y, fluid dynamics,
soils, ecology of soil, soil erosion, the soi		troposphere, meteorology, turbulence, atmo	spheric phenomena near
management	1950 July p. 30–39	the ground cities, water supply, sewage disposal, smog, wa	1964 Oct. p. 62–76
corn, hybrid corn, technology and promise	of hybrid com 1951 Aug. p. 39–47	Los Angeles, New York, metabolism of cities	1965 Sept. p. 178–190
auxins, plant growth, oak, giberellin, functi		automobile, electric automobile, battery, weigh	it, cost, performance of
durins, plant 6,0 %th, out, proceeding tanon	1957 Apr. p. 125–134 [11]	electric automobile	1966 Oct. p. 34-40
climate, plant growth, greenhouse, photope	eriodicity, day-night	cities, climate, heat emission, heat pollution, m	icroclimate, infrared
temperature, 'phytotron', environment si		photography, heat island, climate of cities	67 Aug. p. 15-23 [1215]
	1957 June p. 82–94	cloud seeding, water cycle, water drop, ice cryst	ale for inversion layer.
Lysenko, genetics, potato virus, virus diseas	se, vernanzanon, me 1962 Nov. p. 41–49	smog	968 Dec. p. 74-82 [876]
Lysenko affair irrigation, sea water, salt-water agriculture,		air transport, technology assessment, science po	licy, automobile
migation, sea water, suit water agriculture,	1967 Mar. p. 89-96	transportation, noise pollution, technology as	sessment institutions
plant hybrids, wheat, hybrid wheat, food pr	roduction	proposed	970 Feb. p. 13-21 [332]
	1969 May p. 21–29	rickets, vitamin D, ultraviolet radiation, osteoge	nesis, calcium 70 Dec. p. 76-91 [1207]
chemical mutagens, plant breeding	1971 Jan. p. 86-95 [1210]	metabolism, epidemiology, sunlight 19 climate, atmospheric circulation, carbon dioxide	'window' particulates,
corn, lysine, plant breeding, plant protein, l	numan nutrition, 1971 Aug. p. 34–42 [1229]	ozone, temperature of Earth, human activity a	and climatic change
malnutrition, high-lysine corn	te plant protein	1	971 Jan. p. 32-42 [894]
legumes, nitrogen fixation, soybean product	1974 Feb. p. 14–21	corona discharge, electrocoating, fly ash, electro-	statics, photocopying,
grain, proteins, plant protein, plant hybrids	Triticale	xerography, electrostatic precipitation and sep	eration
	19/4 Aug. p. 12~00	automobile engines, rotary engine, Wankel engin	1972 Mar. p. 46-58
disease-resistant plants, plant breeding, plan	nt disease, fungal infection,	automobile engines, totally engine, wanter engin	1972 Aug. p. 14-23
plant pathogens, sugarcane, mechanism o	1975 Jan. p. 80-88 [1313]	Clean Air Act, emission standards, Environment.	al Protection Agency
plants agricultural economics, forage crops, grasses	hay Jegumes, livestock		1973 June p. 14-21
feed, ruminants, silage, Rhizobium bacter	ia 1976 Feb. p. 60–75	evolution, melanism, moths, gene mutation, popu	lation genetics,
'green revolution', food and agriculture, mai	ze, potatoes, Mexican		5 Jan. p. 90-99 [1314] 1963 Mar. p. 74
ioultura	1970 Schr. b. 150-150	effect of rocket exhaust on upper-air asbestos dust carcinogen	1964 Dec. p. 64
t	re, technology transier,	Los Angeles carbon monoxide emission control	1965 May p. 52
monsoons, irrigation, fertilizers, rice, when	at, hybrid crop plants 1976 Sept. p. 154–163	auto emission standards, safety standards	1965 Aug. p. 44
crop yields, plant breeding, rice, wheat, maiz	re, food and agriculture,	increased precipitation downwind from industry	1968 Apr. p. 49
crop yields, plant breeding, fice, wheat, man		sulfur dioxide	1968 Nov. p. 56 1970 Nov. p. 44
plant genetics Southern leaf blight	1970 Oct. p. 54	U.S. clean-air auto race cadmium, toxic metal	1971 Aug. p. 47
plant origins, sweet potato	1972 Sept. p. 68	tournallution automobile engines	1971 Sept. p. 80
high protein sorghum	1974 Jan. p. 51 1976 Aug. p. 44D	automobile engines, catalytic converter	1973 Apr. p. 44
barley, salt-tolerant crops	1976 Oct. p. 60	t DG for internal combustion fuel:	1973 Sept. p. 69
herbicide, nitrogen stabilizer ailanthus, city trees, pollution effects, tree cloni	ing ginkgo, London plane,	automobile exhaust-emission standard automobile engines, fuel economy	1975 Apr. p. 53 1977 Jan. p. 43
Norway maple	1976 Nov. p. 110-118	air pressure, acoustic pulses, lightning, thunder	1975 July p. 80-90
4		was processor by the state of t	

aluminum 'soldering', by ultrasonics 1953 Sept p 80	American soldiers, public opinion, attitude survey, social discrimination,
all eolar collapse, acute respiratory failure, intensive care, tracheostomy,	sociology, studies of attitudes and morale of U.S. troops during
lung, emphysema, pathogeness and treatment of acute respiratory failure 1969 Nov p 23-29	World War II, including experiments in racial integration of military units 1949 May p 11–15
failure 1969 Nov p 23–29 alveoli, lung, human physiology, breathing, mechanism of breathing	America's Cup race, yachting, yacht design 1974 Dec p 64
1960 Jan p 138–148	Amerindian, Hopi Indians, Tewa Indians, cultural assimilation, Pueblo
lung collapse, premature infants, lecithin, breathing, surface tension,	Indians 1957 June p 126–136
surfactant, hyaline membrane disease, soaplike agents regulate	Havasupai, Cohonina, Paleolithic culture, prehistoric man in the
surface tension in lungs 1962 Dec p 120–130	Grand Canyon 1958 Feb p 97–102
gas exchange, thorax, lung, pulmonary ventulation, breathing, human	racial discrimination, genocide, cultural assimilation, civil rights, persisting identity of Amerindians 1960 Feb p 37–45
physiology, vital capacity, mechanics and physiology of breathing, anatomy of lung 1966 Feb p 56-68 [1034]	persisting identity of Amerindians 1960 Feb p 37–45 mining, gypsum, New World archeology, prehistoric man in Mammoth
anatomy of lung 1966 Feb p 36-68 [1034] Ama, diving, diving women, Korea, Japan, breathing, human physiology,	cave 1960 July p 130–140
basal metabolism, adaptation 1967 May p 34-43	Hopewell cult, burial mounds, New World archeology
amanita, mycology, fungi, wheat rust, ergot, potato blight, morel,	1964 Dec p 90–102
Penicillium notatum, yeast, molds and men	Eskimo, burial site, New World archeology, 2000 B C, Port au Choix,
1952 Jan p 28–32 [115]	Newfoundland, skeletons 1970 June p 112–121 [657] Iroquois Confederacy, New World archeology, cannibalism, Onandaga
Amanita phalloides, fungi, mushrooms, mushroom poisoning, toxins, thioctic acid 1975 Mar p 90–101	tribe 1971 Feb p 32–42 [658]
thioctic acid 1975 Mar p 90–101 Amazon, tropical rain forest, developing countries, resource prospecting,	burial mounds, Cahokia, Mississippian culture, New World archeology
economic planning, forest management, mineral resources, electric	1975 Aug p 92–101 [688]
power, the Amazon frontier 1948 May p 11-14	New World archeology, burnal mounds, Labrador
amber, ants, insect evolution, insect census, insects in 'more than royal	1976 Nov p 122–129
tomb' 1951 Nov p 56–61 [838]	Amerindian antiquity, radiocarbon dating 1950 Nov p 26
amber mutants, bacteriophage, gene mapping, virus particles 1965 Feb p 70-78 [1004]	Amerindian prehistory, Teotihuacan, Middle America, Mexico, New World archeology, pre-Columbian metropolis 1967 June p 38–48
ambulatory care, medical care, medicine, physical incapacitation,	'Ames room', visual perception, distance perception, motion perception,
morbidity, mortality rates, hospital care, triage, health insurance,	optical illusion, size perception, illusions as clues to organization of
introduction to single-topic issue on medical care	perception 1951 Aug p 50-55
1973 Sept p 22–33	visual perception, personality, aniseikonic lenses, anxiety, 'Honi'
medical technology, medical care, hospital care, morbidity,	phenomenon, emotional relationships condition perception 1959 Apr p 56-60
international comparison of medical care systems 1975 Aug p 17–25	amino-acid deficiencies, dietary requirements, human nutrition,
American Association for the Advancement of Science, see AAAS	metabolism, food and agriculture 1976 Sept p 50-64
American Book Exchange, to rebuild science libraries 1948 Nov p 25	amino-acid pairing, genetic code, codon, DNA, RNA, Gamow proposes
American Chemical Society, see ACS	triplet codon 1955 Oct p 70–78
American Geological Institute, Earth sciences federate 1948 Dec p 26	amino-acid separation, ion exchange, alkalı, desalination
American Indian, see Amerindian American Institute of Biological Sciences, established 1948 May p 33	1950 Nov p 48-51 chromatography, fractionation, paper chromatography
American Institute of Physics, launches 'Physics Today'	1951 Mar p 35-41
1948 May p 33	amino-acid sequence, protein structure, protein synthesis, peptide bond,
American languages, speech, language, dialects, linguistics, changes in	hydrogen bonds, tertiary structure, nature, diversity and function of
U S speech 1950 Jan p 48-51 palatalization, speech, changes in American speech	proteins 1950 June p 32–41 [10] insulin, protein structure, first total sequence 1955 May p 36–41
1955 Aug p 78–83	virology, mutation, tobacco mosaic virus 1955 May p 36-41 1955 July p 74-78 [59]
American Negro, skin color, blood typing, recessive gene, marriage	insulin, sugar metabolism, cell membrane, human physiology, action of
preferences, population genetics, genetic meaning of race	ınsulın 1958 May p 99–106
1954 Oct p 80–85 public opinion, US whites, desegregation, attitude survey, racial	insulin, protein structure, ribonuclease, enzyme action, myoglobin,
segregation, sociology, longitudinal attitude study	resolution of atomic structure of three molecules 1961 Feb p 81-92 [80]
1956 Dec p 35–39	genetic code, tobacco mosaic virus, RNA nucleotides, protein
cities, racial discrimination, social geography, segregation,	synthesis, mutation, relation of RNA mutations to amino acid
metropolitan segregation 1957 Oct p 33-41	changes 1964 Oct p 46–54 [193]
desegregation, racial integration, public opinion, attitude survey, U S whites, longitudinal attitude study reported in 1956	allostenc enzymes, myoglobin, hemoglobin, X-ray diffraction, contour maps, folding of four chains, alpha chain, beta chain
1964 July p 16-23 [623]	1964 Nov p 64–76 [196]
racial discrimination, segregation, Puerto Ricans, housing, poverty	lysozyme, X-ray crystallography, enzyme-substrate complex protein
1965 Aug p 12–19 [626]	folding, three dimensional structure and action of lysozyme
black power, racial discrimination, group identity, economic power, ethnic groups, slavery, social deprivation 1967 Apr p 21–27 [633]	1966 Nov p 78–90 [1055]
ghetto, racial discrimination, unemployment, urban riots, public	protein structure, gene protein colinearity, DNA structure, mutation, gene mapping, base 1967 May p 80-94 [1074]
opinion, social class, 'riffraff theory' versus 'blocked opportunity'	antibodies, antibody molecule, immunoglobin Bence-Iones proteins
theory 1968 Aug p 15–21 [638]	heavy chain, light chain, antigen-antibody complex
intelligence, race, whites IQ, heredity, heredity, population genetics, science policy, social psychology, twins environment, racial	1967 Oct p 81–90 [1083]
discrimination 1970 Oct p. 19-29 (1199)	antibody molecule, myeloma, immunoglobin, antigen binding, Bence- Jones proteins, antibody amino-acid sequence determination
desegregation, racial integration, US whites, attitude survey, public	1970 Aug n 24 42 (1195)
opinion, longitudinal attitudes study 1971 Dec p 13-19 [673] racial discrimination, prejudice, public opinion attitude survey, U S	amino-acid substitution, sickle cell disease, malaria anemia, hemoglobin
whites, segregation, integration, longitudinal attitude study	1051 A 56 60
1978 June p 42-49 17071	evolution, proteins species specificity, computer analysis, cytochrome, phylogeny from amino-acid substitution 1969 July p 86-95 [1148]
American Nuclear Society, convenes 1054 Dec. 52	Cytochionic C. Diblein et dillion protein structure manner
American Revolution, white pine, North American forests, Royal Navy, King's Broad Arrow, colonial building 1948 June p. 48–53	mutation rate, 1.2 billion year record of evolution, ancient protein
King's Broad Arrow, colonial building 1948 June p 48–53	1072 4 50 50
	and last proteins, peptide chain, aipna neix, enzyme catalysis, lock-
	and-key theory, how is a protein made? 1953 Sept p 100–106

algal bloom, Dinoflagellata, marine ecology, acetylcholine, nerve poisons.	annum a market and the second
poisonous tide 1958 Aug p 92-9 bacteria, symbiosis, blue-green algae, simplest plants, resemblance to	feedback, cooperative enzymes, control of biochemical reactions
bacteria 1966 June p 74-8 algae, blue-green bacteria, cyanobacteria, gas vacuoles	1 1965 Apr p 36–45 [1008] chemical reaction, chemical kinetics, proton transfer enzymes
1977 Aug p 90_97 [1367	catalysis, chemical equilibrium, relaxation methods in chemistry
algebra, mathematics, science history, matrix, vector 1964 Sept p 70-78	alloying, mechanical alloying metallurgy metal pour describings
aigin, aigae, phytoplankton, kelp, food chain, agar 1952 Dec. p. 15-17	1976 May n. 40_48
algorithms, games theory, logic, computer theory, problem solving, Turing machine 1965 Nav. p. 68–100	alloys, eutectics, crystal structure, metallurgy, controlled entectics
incompleteness theory, mathematical proof, random numbers,	whiskers, controlled-cooling magnets 1967 Febra 86-92
algorithmic definition of randomness 1975 May p 47–52	materials technology, metals, crystal structure, grain boundaries, lattice
computer language, computer programming, hash table, binary search	gas, nature of metals
trees 1977 Apr p 63–80	1967 Sept p 90–100 metalliding, materials technology, diffusion, surface alloy, molten
computer science, Koenigsberg bridges, undecidable questions,	fluoride, electrolysis 1969 Aug p. 38–46
polynomial-time problems, exponential-time problems, efficiency of algorithms 1978 Jan. p. 96-109 (395)	crystal structure, dendrites, metal casting, metallurgy, solidification of
algorithms 1978 Jan p 96–109 [395] scheduling, combinatorial analysis, critical path scheduling, bin-	1574 BCC P 66-55
packing, mathematization of efficiency	superconductors, alloy by ultrarapid cooling 1964 Sept p 88 superconductors, intense magnetic fields 1970 May p 56
1978 Mar p 124-132 [3001]	superconductors, intense magnetic fields 1970 May p 56 alluvial soils, soil structure, chernozems, podzols, latozols, tundra,
'Alice in Wonderland', mathematics, logic, Carroll, Dodgson, Lewis	agronomy, ecology of soil, soil erosion, the soils of the world and
Carroll (Charles Lutwidge Dodgson), biography	their management 1950 July p 30-39
1956 Apr p 116–128	**
alienation, adolescence, family, racial discrimination, divorce, poverty, infant mortality, crime, suicide, drug addiction, changes in American	1951 Apr p 18–23
family structure 1974 Aug p 53-61 [561]	Alnico, cobalt-rare earth alloys, magnetism, permanent magnetis, magnetic domains, anisotropy 1970 Dec p 92–100
aligned crystals, crystal structure, materials technology, metals, alignment	alopecia areata, white hair 'overnight' 1972 Nov p 54
of crystals for control of mechanical and magnetic properties	alpha clustering, alpha particles, atomic nucleus, elementary particles,
1959 Apr p 125–141	nuclear clustering neutron, nuclear forces, nuclear surface, proton
alkali, 10n exchange, desalination, amino-acid separation	1972 Oct p 100–108
alkali bog, quicksand, fluidized sand 1953 June p 97–102	alpha decay, neutrino, elementary particles, neutron decay, beta decay, setting trap for detection of theoretical particle 1956 Jan p 58-68
alkali-metal anions, alkali-metal cations, cryptands, electron orbitals,	transuranium elements, isotopes, nuclear stability, beta decay,
solvated electrons, quantum mechanics 1977 July p 92-105 [368]	radioactive decay, 'synthetic' elements, periodic table, the
alkali-metal cations, alkali-metal anions, cryptands, electron orbitals,	'superheavy' elements beyond 103 1969 Apr p 56-67
solvated electrons, quantum mechanics 1977 July p 92–105 [368]	alpha helix, proteins, amino acids, peptide chain, enzyme catalysis, lock- and-key theory, how is a protein made? 1953 Sept p 100-106
alkaloids, anthropology, medicine, magic, psychoactive drugs, hypnosis psychiatry, lessons from primitive medicine 1948 Sept p 24–27	proteins, polypeptide chain, amino acids, hydrogen bonds, X-ray
plant physiology, morphine, strychnine, 'hemlock', physostigmine,	crystallography 1954 July p 51–59 [31]
caffeine, conline, quinine, cocaine, ricinine, LSD, human toxins in	collagen, proteins, beta chain, polypeptide synthesis, polymers, amino
plant physiology 1959 July p 113–121 [1087]	acids, synthesis and architecture of proteins
acetylcholine, acetylcholinesterase, nerve gases, nerve poisons, citric-	1957 Sept p 173–184 [7] amino acids, myoglobin, proteins, X-ray crystallography, 3 D structure
acid cycle, toxins, lethal mechanisms at cellular level 1959 Nov p 76-84	of protein molecule 1961 Dec p 96–11 [121]
hallucinogens, mental health, drug addiction, consciousness alteration,	proposed by Pauling 1951 Aug p 33
LSD, psychosis, psilocybin, mescaline, effects of LSD	alpha keratin, keratin, X-ray diffraction, protein structure, feather keratin 1969 Aug p 86-96 [1155]
1964 Apr p 29–37 [483]	alpha particles, alpha clustering, atomic nucleus, elementary particles,
butterfly, larvae, symbiosis, insect repellants, behavioral adaptation, plant evolution, mimicry, butterfly-plant association	nuclear clustering neutron, nuclear forces, nuclear surface, proton
1967 June p 104–113 [1076]	1972 Oct p 100–108
alkantonuria, agammaglobulinemia, gene expression, Wilson's disease,	alpha rhythms, electroencephalography, brain waves, medical diagnosis,
congenital anomalies, chemistry of hereditary disease, one gene-one	Fourier analysis, toposcope display, automata theory 1954 June p 54-63
enzyme hypothesis 1956 Dec p 126-136 all-weather imaging, aerial mapping, aerial photography, airborne radar,	alpine environment, cushion plant, pinks, lammergeier, Himalayan
radar, radar holography, side-looking radar	mountain ecology 1961 Oct p 68–78
1977 Oct p 84–95 [380]	Altar Mountains, Scythian culture, Siberia, tombs, refrigerated tombs, archeology, cloth, leather and wood artifacts preserved by
allergic reaction, autosensitivity, poison ivy, dermatitis, rheumatoid	refrigeration 1965 May p 100–109
arthritis, multiple sclerosis, delayed hypersensitivity 1960 Apr p 129-137	Altamira, cave art, cave paintings, Paleolithic archeology, sculpture,
antibodies antigen complement, immune response, lymphocytes virus	Lascaux 1968 Feb p 58–72
antigene virus disease autoimmune disease, immune complex	alternating current, electric light, lighting, zinc sulfide, technology of indoor lighting 1957 Aug p 40-47 [221]
disease glomerylonenhritis lymphocytic choriomeningitis, scium	electric power, high-voltage transmission, power transmission,
sickness 1973 Jan p 22–31 [1263] antibodies, antigens, immune response, anaphylactic shock,	hydroelectric power generation, corona discharge, economic
ammunology lymphocytes 19/3 NOV D 34-00 [1203]	advantages of high-voltage transmission 1964 May p 38-47 alternating-gradient synchrotron, 'eightfold way', omega-minus particle,
Plant amount reaction antigens antihodies, serum sickness,	bubble chamber, particle accelerator, high-energy physics U S
hypersensitivity	Broot bayen National Laboratory experiment 1964 Oct p 36-45
asthma, hypersensitivity, stress 1952 Aug p 28–30	Altintepe, Biblical archeology, Mount Ararat, Urartu, 800 B C culture at
asthma, hypersensitivity, stiess antigens, immune response, antibodies, hypersensitivity, phagocytosis, inflammatory response, leukocyte, thymus gland, lymphatic system, 1964 Feb. p. 58-64	Noah's landing-place 1967 Mar p 38-46 altitude, highest mountain Mount Chimboraro 1973 Feb p 49
and last amount of the second	-tanada adaptetion, brown (al. Opecina indians, accimianzation deer
allocation of time, television, content analysis, a critical review by	mice, hemoglobin, metabolic rate, exercise numan physiology at
educators - National and American Street and	high altitude 1970 Feb p 52-62 [1168] aluminates, materials technology, ceramics crystal structure, silicates
	heat resistance ionic bonds covalent bonds nature of ceramics
sequence, contour maps, folding of four chains, appear	1967 Sept p 112–124

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earthquake distribution, mountain formation, plate tectonics, seismic	ethology, evolution, ritualized behavior, innate behavior, releaser
waves, volcanic activity 1973 Aug p 60–69 [910]	stimulus, evolution of behavioral patterns 1958 Dec p 67-78 [412]
androgens, ACTH, hormone, sexual characteristics, growth, thyroid-	incubator birds, eggs, chicken, fowl, ornithology, hatching eggs in hot
stimulating hormone, follicle-stimulating hormone, prolactin,	places 1959 Aug p 52–58
estrogens, secondary sexual characteristics, human physiology,	comparative psychology, prairie dogs, social behavior, territorial
endocrine system, chemical integrators of the body	behavior, innate behavior, learning behavior, field observation of
1957 Mar p 76–88 [1122]	prairie dog communities 1959 Oct p 128–140
Andromeda Galaxy, universe expansion, Cepheid variable, Clouds of	ornithology, crow, signal behavior, language of crows
Magellan, galactic yardstick, doubling of yardstick doubles size and	1959 Nov p 119–131
age of the universe 1953 June p 56-66	learning, stress, behavior disorders, stimulation in infancy
galactic rotation 1973 June p 30–36	1960 May p 80–86 [436]
galactic rotation galactic clusters, local clusters, M81 cluster, Virgo cluster	electric fishes, sodium ion potential, electroplaques, neurophysiology,
1977 Nov p 76–98 [390]	synapse, acetylcholine, nerve impulse, bioluminescence
anemia, sickle cell disease, malaria, amino-acid substitution, hemoglobin	1960 Oct p 115–124
anemia, sickie cen disease, maiaria, ammo-acid substitution, nemographi 1951 Aug p 56–59	ethology, social behavior, gulls, comparative psychology, evolution,
~ •	reconstructing gull family tree from behavior of species
sickle cell disease, hemoglobin S, human evolution, malaria	1960 Dec p 118–130 [456]
hematology, adaptive benefits of sickle-cell anemia 1956 Aug p 87-94 [1065]	ecological niche, symbiosis, reef ecology, cleaning behavior, behavioral
1930 Aug p 67-34 [1003]	integration of reef ecology 1961 Aug p 42–49 [135]
brain damage, environmental toxins, blood disorders, kidney disorder,	behavioral adaptation, ground squirrels, Mojave desert, kidney
lead poisoning, nerve disorders 1971 Feb p 15–23 [1211]	function, thermoregulation, desert adaptation, desert mammals'
chemotherapy, cyanate, genetic disease, hemoglobin, erythrocyte, sickle	
cell disease 1975 Apr p 44–50 [1319]	adaptations to heat and aridity 1961 Nov p 107–116
sickle cell disease, chemical basis of hemoglobin mutation	cichlid fish, marine iguana, rattlesnake, fighting behavior, comparative
1957 Aug p 58	psychology, oryx 1961 Dec p 112–122 [470]
anemometer, meteorology, radiosonde, rain gauge, barometer,	evolution, innate behavior, lovebird, sexual behavior, interspecies
hygrometer, instrumentation of meteorology 1951 Dec p 64-70	differentiation of behavior 1962 Jan p 88–98
anesthesia, pain, cocaine, procaine, surgery, medical research,	bioelectricity, physiological psychology, electrically controlled behavior
neuropharmacology, pharmacology, psychiatry, research in pain	1962 Mar p 50–59 [464]
suppression 1957 Jan p 70–82	marine biology, fish, schooling behavior, sensory systems for parallel
barbiturates, hypnotics, tranquilizers, sedatives, pharmacology	orientation 1962 June p 128–138 [124]
1958 Jan p 60-64	sharks, attack prevention, sensory systems, feeding behavior
semility hastened 1955 Dec p 54	1962 July p 60–68 [127]
dissociative anesthesia 1971 June p 56	Phalangida, harvestman, daddy longlegs, Arachnida, natural history
aneurysm, common etiology 1968 Dec p 50	1962 Oct p 119-128 [137]
anger, fear, adrenalin, noradrenalin 1955 May p 74-81 [428]	archer fish, predator-prey relationship, natural history, Toxotes
fear, different adrenalins 1951 Nov p 40	1963 July p 100–108
angiogenesis, avascular tumors, cancer, tumor inhibition, tumor	arena behavior, bowerbirds, sexual behavior, courtship display, releaser
vascularization, tumor angiogenesis factor (TAF)	stimulus, ethology, natural history 1963 Aug p 38-46 [1098]
1976 May p 58–73 [1339]	Antarctica, ornithology, skua, south polar skua 1964 Feb p 94–100
angiotensin, hypertension, atherosclerosis, stress, etiology and care of	chimpanzee, symbolic language, learning, operant conditioning, binary
hypertension 1948 Aug p 44–47	numbers, chimpanzee learning arithmatic 1964 May p 98-106 [484]
hypertension, kidney function, human physiology, isolation of	brain stimulation, neurotransmitters, hormone, drive activation by
angiotension 1959 Mar p 54–58	injection of chemicals into rat brain 1964 June p 60–68 [485]
angiotonin, see angiotensin	population control, territorial behavior, reproduction, homeostatic
Anglo-Saxon King, Sutton Hoo, ship burial, a treasure hoard	population controls 1964 Aug p 68–74 [192]
1951 Apr p 24–30	habitat selection, ecological adaptation, heredity, learning field
angular momentum, dust cloud hypothesis, binary stars, photophoresis,	experiments with mice 1964 Oct p 109–116 [195]
gravitational collapse, element abundance, origin of the Earth	Arachnida, false scorpion, natural history, Chelifer canroides
1952 Oct p 53–61 [833]	1966 Mar p 95–100 [1039]
ultracentrifuge, ultra-high speed rotation, magnetic flotation, molecular	sex differences, hypothalamus, testosterone, physiological psychology,
weight determination, 90 million r p s 1961 Apr p 134-147	sex hormones, pituitary hormones, sex differences in rat brain, effect
pulsar, white dwarfs, neutron stars, gravitational collapse, 'lighthouse'	of testosterone 1966 Apr p 84-90 [498]
model proposed 1968 Oct p 25–35	aggression, rats, social behavior, territorial behavior, natural history,
Crab Nebula, neutron stars, pulsar, radio source, stellar evolution,	Rattus rattus, Rattus norvegicus 1967 Jan p 78-85
gravitational collapse 1971 Jan p 48–60	nervous system, vision, reflex arc, motor neuron, interneuron, small
animal behavior, opossum, marsupial, death-simulation, playing possum by opossum and other animals 1950 Jan p 52-55	neuron systems as models for study 1967 May p 44-52 [1073]
	evolution, fossil tracks, fossil animal tracks, burrows
sexual behavior, courtship display 1950 July p 52-55 hibernation, metabolic rate, thermoregulation, body temperature	1967 Aug p 72–80 [872]
1950 Dec p 18–21	speciation, gulls, evolution, sexual behavior, innate behavior, ethology,
	species discrimination, Larus, eye rings 1967 Oct p 94-102 [1084]
	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons,
stickleback, courtship display, sexual behavior, displacement activity,	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p. 64–76 [515]
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec. p. 22-26 [414]	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64–76 [515] cryptozoa, Berlese funnel, natural history, ecological niche
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22-26 [414] curiosity, rhesus monkeys, problem solving, genetic traits	canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22-26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70-75	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 zoos, captivity 1954 May p. 76–80	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108-114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role,
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 200s, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology	canaries, chickens 1968 June p 64–76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108–114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1968 June p 104 111
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 200s, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec. p. 80–86	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108-114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104-111 innate behavior, learning, parental care, feeding behavior, sea gull
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 200s, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec. p. 80–86	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64–76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108–114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104–111 innate behavior, learning, parental care, feeding behavior, sea gull chicks
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stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 2005, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec p 80–86 tawny owl, nocturnal animals, predator-prey relationship 1955 Oct p 88–98 bowerbirds sexual behavior, courtship display arena behavior	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108-114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104-111 innate behavior, learning, parental care, feeding behavior, sea gull chicks 1969 Dec p 98-106 [1165] locomotion, herpetology, snake, lateral, rectilinear, concertina and sidewinding modes of progression 1970 June p 23 06 [1169]
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 200s, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec p 80–86 tawny owl, nocturnal animals, predator-prey relationship 1955 Oct p 88–98 bowerbirds sexual behavior, courtship display, arena behavior, Australian bowerbird, natural history 1956 June p 48, 52	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108-114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104-111 innate behavior, learning, parental care, feeding behavior, sea gull chicks 1969 Dec p 98-106 [1165] locomotion, herpetology, snake, lateral, rectilinear, concertina and sidewinding modes of progression 1970 June p 82-96 [1180] albatross, evolution, bird flight, sexual behavior, soaring, natural history
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 2005, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec p 80–86 tawny owl, nocturnal animals, predator-prey relationship 1955 Oct p 88–98 bowerbirds sexual behavior, courtship display, arena behavior, Australian bowerbird, natural history 1956 June p 48–52 bird song animal communication, learning innate behavior	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108-114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104-111 innate behavior, learning, parental care, feeding behavior, sea gull chicks 1969 Dec p 98-106 [1165] locomotion, herpetology, snake, lateral, rectilinear, concertina and sidewinding modes of progression 1970 June p 82-96 [1180] albatross, evolution, bird flight, sexual behavior, soaring, natural history
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 2005, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec p 80–86 tawny owl, nocturnal animals, predator-prey relationship 1955 Oct p 88–98 bowerbirds sexual behavior, courtship display, arena behavior, Australian bowerbird, natural history 1956 June p 48–52 bird song animal communication, learning innate behavior	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64–76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108–114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104–111 innate behavior, learning, parental care, feeding behavior, sea gull chicks 1969 Dec p 98–106 [1165] locomotion, herpetology, snake, lateral, rectilinear, concertina and sidewinding modes of progression 1970 June p 82–96 [1180] albatross, evolution, bird flight, sexual behavior, soaring, natural history 1970 Nov p 84–93 [1204] mollusks, central nervous system, neurophysiology
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 200s, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec p 80–86 tawny owl, nocturnal animals, predator-prey relationship 1955 Oct p 88–98 bowerbirds sexual behavior, courtship display, arena behavior, Australian bowerbird, natural history 1956 June p 48–52 bird song animal communication, learning innate behavior 1956 Oct p 128–138 [145] learning imprinting developmental psychology, effect of early life on	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64–76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108–114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104–111 innate behavior, learning, parental care, feeding behavior, sea gull chicks 1969 Dec p 98–106 [1165] locomotion, herpetology, snake, lateral, rectilinear, concertina and sidewinding modes of progression 1970 June p 82–96 [1180] albatross, evolution, bird flight, sexual behavior, soaring, natural history 1970 Nov p 84–93 [1204] mollusks, central nervous system, neurophysiology 1971 Feb p 68–75 [1212] biological clock, circadian rhythm circannual the the heberset.
stickleback, courtship display, sexual behavior, displacement activity, ethology 1952 Dec p 22–26 [414] curiosity, rhesus monkeys, problem solving, genetic traits 1954 Feb p 70–75 2005, captivity 1954 May p 76–80 courtship display, gulls, releaser stimulus, displacement activity, ethology 1954 Nov p 42–46 spider webs, drug action, abnormal behavior 1954 Dec p 80–86 tawny owl, nocturnal animals, predator-prey relationship 1955 Oct p 88–98 bowerbirds sexual behavior, courtship display, arena behavior, Australian bowerbird, natural history 1956 June p 48–52 bird song animal communication, learning innate behavior	learning, cerebral cortex, striatum, bird nervous system, crows, pigeons, canaries, chickens 1968 June p 64-76 [515] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere, life under rocks and rotting logs 1968 July p 108-114 [1112] marine birds, phalarope, sexual behavior, parental care, sex role, hormone 1969 June p 104-111 innate behavior, learning, parental care, feeding behavior, sea gull chicks 1969 Dec p 98-106 [1165] locomotion, herpetology, snake, lateral, rectilinear, concertina and sidewinding modes of progression 1970 June p 82-96 [1180] albatross, evolution, bird flight, sexual behavior, soaring, natural history 1970 Nov p 84-93 [1204] mollusks, central nervous system, neurophysiology

professo molemonated activities to the second	
proteins, polypeptide chain, hydrogen bonds, X-ray crystallography, alpha helix	amphibian metamorphosis, tadpole, frog, thyroid hormone, chemistry of
	amphibian metamorphosis 1963 Nov p. 110-118 (170)
105511, bone, mollusk shells, paleontology, paleobiochemistry	amphora Classical probables and 1903 NOV p 110-118 [1/0]
1956 July n. 83_92 (101	
collagen, proteins, beta chain, alpha helix, polypeptide synthesis	amplification, see amplifiers 1954 Nov p 98–104
polymers, synthesis and architecture of proteins	amplifiers electrones electrones
1957 Sept. p. 173-184 17	amplifiers, electronics, electron tubes, communication technology,
myoglobin, proteins, X-ray crystallography, alpha helix, 3-D structure	opties, bathode-ray tube, communication, power,
of protein molecule 1961 Dec. p. 96–11 (12)	thermionic emission, state of the technology 1950 Oct p 30-39
evolution, hemoglobin, myoglobin, molecular evolution, evolutionary	
distance measured by amino-acid substitution	circuitry, noise 1959 June p 118–129
1965 May p 110–118 [1012]	fluid dynamics, switching, Coanda effect, logic gates
DNA, protein synthesis, genetic code, mutation, molecular biology,	
triplets RNA antigodon sibosomos templeto makita hanala	anaerobic metabolism, ruminants, metabolism, symbiosis, cellulose
triplets, RNA, anticodon, ribosomes, triplets, wobble hypothesis	digestion, fermentation, how cows digest grass 1958 Feb p 34-38
1966 Oct p 55-62 [1052]	animal behavior, cryptobiotic animals, metabolism, suspended
protein synthesis, formylmethionine, ribosome, mRNA, tRNA,	animation, Nematoda Rotifera Tardiorada 1971 Dec. p. 30-36
initiation of protein synthesis 1968 Jan p 36-42 [1092]	ATP, muscle, glycolysis, aerobic metabolism, oxygen debt, lactic acid
insulin, automatic synthesis, protein synthesis, peptide bond, 'solid	formation, aerobic metabolism, energy mechanisms in muscle
phase' method of synthesis, polystyrene beads	1972 Mar p 84-91 [1244]
1968 Mar p 56-74 [320]	analgesics, aspirin, inflammation, fever, histamine reaction,
left from right, amino acid isomers separated 1949 Nov p 31	bronchospasm, anaphylactic shock, mode of action and hazards of
in Precambrian rock 1968 May p 50	most widely used drug 1963 Nov p 96–108
amino acids synthesized, Miller-Urey experiment 1953 July p 42	
ammonia, nitrogen, biological nitrogen fixation, nitrifiers, denitrifiers,	morphine, opium, poppy, heroin, codeine, Bentley's compound, drug
	action, search for strong, safe analgesic 1966 Nov p 131-136 [304]
	analog-to-digital conversion, computer, automatic control, solid-state
solvated electrons, radiolysis, ionization, radiation chemistry, sodium,	electronics, digital computer, analogue computer, the universal
alkalı metals 1967 Feb p 76–83	machine 1952 Sept p 116–130
ammonia manufacture, biological nitrogen fixation, Haber process,	computer applications, syntactic analysis, computer modeling,
metallo-organic process, nitrogen fixation 1974 Oct p 64-70	computer technology, computer as instrument and as 'actor' in
ammonia maser, atomic clock, cesium clock, maser, zenith tube, mercury	science 1966 Sept p 160-172
mirror, improvements on sidereal time 1957 Feb p 71-82 [225]	analogue computer, computer technology, digital computer, relay
amniocentesis, enzyme deficiency, genetic disease, prenatal genetic	computers, binary arithmetic, logic, automatic control, computer
diagnosis, hemophilia, Down's syndrome, Tay-Sachs disease,	memory, control systems, status of 'mathematical machines'
chromosomal anomalies 1971 Nov p 34-42 [1234]	1949 Apr p 28-39
enzyme deficiency, fat metabolism, genetic disease, Tay-Sachs disease,	computer, automatic control, solid state electronics, analog-to-digital
lipids, lipid-storage diseases, 10 lipid-storage diseases	conversion, digital computer, the universal machine
1973 Aug p 88-97	1952 Sept p 116–130
amoebae, social amoebae, slime mold, Dictyostelium acrasin, role of	ancient instruments, astrolabe, planispheric astrolabe, science history,
acrasin in cell aggregation 1949 June p 44-47	how they did it then 1974 Jan p 96-106
cell, cytology, sol-gel reaction, high pressure, effect of high pressure on	analogue storage media, information theory, statistics, thermodynamics,
cellular activity 1958 Oct p 36-43	noise, redundancy, digital storage media, information compression,
cell differentiation, social amoebae, slime mold, Dictyostelium cell	automatic control, information 1952 Sept p 132-148
aggregation, acrasin 1959 Dec p 152–162	analytic geometry, Fermat, Descartes, mathematics history, conic
phagocytosis, cell motility, cytoplasmic streaming, sol-gel reaction,	sections, Euler, mathematics 1949 Jan p 40-45
front contraction theory of amoeboid motion	creativity, mathematical invention, set theory, Fermat's last theorem,
1962 Feb p 112–122 [182]	innovation in mathematics 1958 Sept p 66-73
social behavior, slime mold, Dictyostelium, chemotaxis	Cartesian geometry, mathematics, philosophy, Descartes, Rene
communication, spatial orientation 1963 Aug p 84-93 [164]	Descartes, biography 1959 Oct p 160–173
acrasın, adrenalın, social amoebae, slime mold, Dictyostelium, cyclic	analytical engine, Babbage, computer, difference engine, digital
AMP 1969 June p 78–91	computer, life and work of Charles Babbage 1952 Apr p 66-72
amorphous metals, glassy metals 1978 Apr p 86	anaphylactic shock, aspirin, inflammation, analgesics, fever, histamine
amorphous polymers, polymer microstructure, random-coil model,	reaction, bronchospasm, mode of action and hazards of most widely
semicrystalline polymers, synthetic polymers, thermoplastic	used drug 1963 Nov p 96-108
polymers 1975 Dec p 96~106	antibodies, antigens, allergic reaction, immune response, immunology,
amorphous semiconductors, switching, glass, memory, threshold switch,	lymphocytes 1973 Nov p 54-66 [1283]
memory switch 1969 Nov p 30-41	Anatolia, Arzawa, archeology, Hittites 1955 July p 42-46
nonperiodic systems, Ovshinsky devices, quantum mechanics,	Assyrian civilization, commerce, 2000 B C, trade patterns
semiconductor technology, switching phenomena	1963 Feb p 96-106
1977 May p 36–48 [362]	Anatolian plateau, Neolithic archeology, Catal Huyuk
Ovshinsky devices 1972 Mar p 40	1964 Apr p 94–104 [620]
amorphous solid, materials technology, glass fiber, optical glass, ceramics,	anatomy, see human anatomy, comparative anatomy and the like
	anchovy, Peru Current, guano, seagulls, El Niño, upwelling
opictal structure solid-state electronics. X-ray crystallography, inclais,	1954 Mar p 66–71
comiconductor, nonmetals, materials technology, electrical	anchovy crisis, El Niño, fishing, upwelling, Peru Current Peruvian
1907 Sept p 80-89	anchovy dysaster. El Niño and overfishing 1973 June p 22–29 [1273]
and the broken close supercooling crystal structure, geometry of	anchovy disaster, El Niño and overfishing 1977 July p 60 ancient instruments, Antikythera, planetary motion, Greek computer.
1 4	science history, Classical archeology, computer technology, 2,000-
omphetomines behavior encephalitis, hyperactive child, temperament,	user old computer 1959 June p 60–67
Janearo morcebly innote dispass Stilliulia	analogue computer, astrolabe planispheric astrolabe, science history,
[9/0 Apr p 7+70 [521]	how that did it then 1974 Jan 19 96-106
amphibian, frog, color vision, retina, retinal image-processing, visual	ancheology, writing, Elamite culture, Mesopotamian
	culture, Persia Sumer, Iran Tepe Yanya
[704 Will P 110 139	19/1 June D 102~111 10001
metamorphosis, frog, thyroxin, pituitary gland, hypothalamus,	Andes, anthropology, Paleolithic culture, stone tools, obsidian, El Inga
neurosecretory system, hormone, chemistry of amount 76–88 [1042]	site, prehistoric man in the Andes 1963 May p 116–128
metamorphosis 1900 May p 10 00 [15 12]	

whaling industry, blue whale, endangered species, Ir	nternational	cultural evolution, sociology, multilinear human c	culture changes 1956 May p 69–80
	1966 Aug p I3–2I	nonverbal communication, posture, cultural relati	• •
Antarctic glacier, Earth, glaciation, climate, sea level, h	Sept p 84–92 [809]	•	1957 Feb p 122-132
Antarctic Ocean, Antarctica, ocean circulation, Antarc		Neanderthal man, human evolution, co-existence	of Homo sapiens and
physical oceanography of Antarctic 1962 Se	pt p 113–128 [860]	Neanderthal man 195	57 Dec p 89–96 [844]
Antarctic Treaty, Antarctica, history of exploration, I	GY, introduction	nonverbal communication, pictograph, Easter Isla	
to a single-topic issue on Antarctica	1962 Sept p 60-63	human evolution, steatopygia, climate, human mi	1958 June p 61–68
inspection procedures Antarctica, Atka, oceanography, icebreaker, I G Y, in	1963 Nov p 65	population, genetic variation, ancient migration	and human diversity
single-topic issue on the planet Earth	1955 Sept p 50–55		Sept p 112-127 [604]
penguin, sexual behavior, behavioral adaptation, na	itural history	Paleolithic culture, stone tools, obsidian, Andes, I	
	1957 Dec p 44-51		1963 May p 116–128
history of exploration, I G Y, Antarctic Treaty, into	roduction to a	bride price, marriage contracts, Sebei tribe	1973 July p 74–85
	1962 Sept p 60–63	central-place theory, market networks, People's R Guatemala, rural markets	1975 May p 66–79
Earth magnetic field, 'whistlers', upper atmosphere, atmosphere-magnetic field-solar wind interaction	, solar wind, autora,	bison hunting	1971 June p 59
atmosphere-magnetic field-solar wind interaction	Sept p 74-83 [858]	human evolution, Lake Rudolf skull	1973 June p 39
climatology, solar radiation, atmospheric circulatio		human evolution, Ethiopian skull	1974 Dec p 64
Antarctica in Earth's heat budget 1962	Sept p 84-94 [859]	human evolution	1976 Oct p 57
ocean circulation, Antarctic convergence, Antarctic	Ocean, physical	North American prehistory	1977 June p 61
	ept p 113–128 [860]	see also social anthropology anti-histamines, puffing reduced by F D.A	1950 Aug p 30
glaciation, Antarctic continental glacier, ice, stratig	ept p 132–146 [861]	anti-scientific attitudes, fluoridation, public opinion	U 1
in glaciers ecological implications 1962 Segeology, glaciation, seismology, seismic mapping, A	Antarctic land mass.		55 Feb p 35–39 [453]
part continent-part archipelago	962 Sept p 151–166	antiballistic missile, see ABM	
fossil fauna, fossil flora, geology, paleontology, Glo	ossoptens, coal,	antibiotic hazard, from animal feeding	1952 Jan p 38
continental drift evidence 1962 Se	ept p 168–184 [863]	antibiotic resistance, hospital infections, staphyloco-	•
oceanography, marine biology, food chain, krill, bl	ue whale, ecology,	classical aseptic routines antibiotics, staphylococcus septicemia, toxicology	1959 Jan p 41–45
Antarctic convergence, biological province of Ai	962 Sept p 186–210	phosphorylation, cause of death from staphylo-	
fauna, flora, lichens, blue-green algae, ecology, An		pp,	1968 Feb p 84-94
life 1962 S	ept p 212-230 [865]	bacteria, infectious disease, drug resistance, gene	mutation, plasmids,
anımal behavior, ornithology, skua, south polar sk	ua		3 Apr p 18–27 [1269]
	1964 Feb p 94-100	antibiotics, aureomycin, virus disease, rickettsial dis	
penguin, animal migration, animal navigation, Ad	elie penguin 1966 Oct p 104–113	infection, 'broad spectrum' antibiotic infectious disease, toxicity, bacterial resistance, vi	1949 Apr p 18–23
navigation system seal, directional orientation, breathing, breathing l		new medical technology	1949 Aug p 26–35
1969 A	ug p 100-106 [1156]	biochemistry, enzymes, virus, citric-acid cycle, me	
ice perils Atka	1955 Apr p 52	enzymes, sulfa drugs, science, biochemistry 190	
IGY	1956 Jan p 45	noncellar eteortomy our successives ablasamaka	1950 Sept p 62–68
IGY IGY	1957 July p 65 1957 Oct p 58	penicillin, streptomycin, aureomycin, chloramphe disease, the antibiotic revolution	1952 Apr p 49–57
weapons test fallout	1957 Nov p 70	plant disease, rot, blight, smut, wilt disease, mold	
I G Y results reviewed	1958 Mar p 54	•	1955 June p 82-91
IGY	1958 May p 56	protein synthesis, streptomycin, genetic code, ribo	
IGY	1958 Aug p 49	mutation, 'misreadings' induced by antibiotic a	
Special Committee for Antarctic Research I G Y results	1958 Nov p 53 1959 Feb p 59	bacteria, drug resistance, mutation, DNA R-facto	1966 Apr p 102–109
reserved for science by treaty	1960 Jan p 70	resistance, multiple resistance	1967 Dec p 19–27
sub-glacial topography	1960 Mar p 86	staphylococcus septicemia, antibiotic resistance, t	oxicology, oxidative
results of scientific exploration	1960 Oct p 83	phosphorylation, cause of death from staphylo-	
research ships described US National Science Foundation research progr	1961 May p 80 am 1962 Oct p 60	chemotherapy, drug effects, liver function, pharm	1968 Feb p 84–94
antelope, animal husbandry, giraffe, elephant, buffa			1973 Sept p 102–112
hippopotamus, wildlife husbandry in Africa		actinomycin, DNA-actinomycin binding, mRNA	inhibition, protein
desert adaptation, thermoregulation, water drinks	ng, evaporation,	synthesis 1974	Aug p 82-91 [1303]
eland and oryx, survival without drinking	1969 Jan p 88–95	mutagenic streptomycin	1949 Aug p 24
antennae, artificial satellite, orbital motion, interfer astronomy, tracking station, satellite tracking	ometry, radio 1958 Jan p 23–29	show synergy plant-growth stimulants	1950 Sept p 46
anthocyanins, leaf color, chlorophyll, carotene, prin	nary synthesis of	misuse, livestock feed pens	1952 Oct p 48 1966 Oct p 44
aromatic compounds	1950 Oct p 40-43	antibodies, allergy, immune reaction, antigens, serui	m sickness
carotenoids, flower pigments, pigment synthesis,	flavonoids,	hypersensitivity	1948 July p. 26-29
biochemistry and genetics of flower pigments	64 June p 84-92 [186]	leukocyte, infection, phagocytosis, 'the first line o	f defense'
anthracene, crystallography, photosynthesis, electro	on transfer, exciton.	fertilization, antigen-antibody reaction, fertilizin	951 Feb p 48-52 [51]
plants, organic crystals, conjugated aromatic h	ydrocarbons	10	954 June p 70-75 [43]
	1967 Jan n 86-97	immunity, how antibodies are made, self-marker	hypothesis
anthropoid, primate evolution, fossil primates, hom of man			1954 Nov p 74 79
anthropology, medicine, magic, alkaloids, psychogo	964 July p 50–62 [622] Stive drugs, hypnosis	bacterial infection, blood proteins, gammaglobuli	n immunologi ticcuo
psychiatry, lessons from primitive medicine	1948 Sent n 24_27	grafts, agammaglobulinemia, hereditary immur	1957 July n 02 104
human evolution, culture as concept, science, and	thropology 1900-1950	antigens, antigen-antibody reaction gammaglobu	1957 July p 93–104
Kuanyama Ambo, social controls murder, mona	1950 Sept p 87-94	specificity	1057 Oct - 00 10c
	1950 Oct p 52–55	electrophoresis, immunoelectrophoresis, antigens	separation of
Halloween, Druid holiday	1951 Oct p 62-66	1960	Mar p 130-140 [84]

courtship display, turkeys, pecking order, sexual behavior, lek	correct plantition and t
behavior, Welder Wildlife Refuge 1971 June p. 112-119	aerial plankton, species dispersion, insect physiology, agricultural pest,
cryptoblotic animals, metabolism, anaerobic metabolism, suggested	entomology, wind-borne dispersal of species 1963 Dec p 132-138 animal navigation, turtles, telemetry, sexual behavior, nesting,
animation, Nematoda, Rotifera, Tardigrada 1971 Dec p 30-36	Uncionia mydas green turtle 1 400 mile in mile
ducks, imprinting, auditory interaction 1972 Aug p. 24-21 15461	great tarrie, 1,400-line journey
developmental psychology, homing behavior, kittens, learning, suckling	DUDUUD animal naturation Antorotec Addi-
1972 Dec p 18-25 [552]	System 1966 Oct p. 104 113
escape response, neurophysiology, toad, visual perception, visually guided behavior 1974 Mar. p. 34-47 (1202)	polar pears telemetry satellite Aratic catallite treatment
guided behavior 1974 Mar p 34-42 (1293) population cycles, population control, lemmings	animais 1968 Feb p 108_116 (1102)
1974 June p 38–46 [1296]	animal behavior, biological clock, circadian rhythm, circannual
birds, finches, mimicry, parasitism, sexual behavior, widow birds	
1974 Oct n 92-98	grassland, grazing animals, grazing ecosystem, savanna topography, Serengeti National Park, Tanzania 1971 July p 86-93 [1228]
lions, symbiosis, predator-prey relationship 1975 May n 54-65	Serengeti National Park, Tanzania 1971 July p 86-93 [1228] animal navigation, sonar, bat sonar, ultrasonic signal, bat navigation
aerodynamics, bird flight, insect flight, clap-fling mechanism, flin	demonstrated in laboratory 1950 Aug p 52-55
mechanism, hovering flight, lift generation	bee, crustacea, solar navigation 1954 Oct p 74-78
1975 Nov p 80-87 [1331]	polarized light, Nichol prism, dichroic material, horseshoe crab
mantis shrimps, marine life, stomatopods 1976 Jan p 80-89	1955 July p 88–94
predator-prey relationship, spiders, Arachnida, social spiders	salmon, fish migration, homing behavior, chemotaxis
1976 Mar p 100-106 crocodile, Nile crocodile, parental care, reptile 1976 Apr. p 114-124	1955 Aug p 72–75
hopping energetics, kangaroos, mammalian evolution, marsupial	bird navigation, spatial orientation, bird migration, celestial navigation by birds 1958 Aug p. 42-47 [133]
1977 Aug p 78–89 [1366]	by birds 1958 Aug p 42–47 [133] bioluminescence, electric fishes, electric field 1963 Mar p 50–59
milk hijacking by British songbirds 1950 June p 30	animal migration, turtles, telemetry, sexual behavior, nesting, Cheloma
hedgehog's egg preferences 1952 Apr p 44	mydas, green turtle, 1,400-mile journey 1965 May p 78-86 [1010]
crow-calls, bird semantics 1956 Aug p 52	penguin, animal migration. Antarctica, Adelie penguin navigation
see also insect behavior, primate behavior, animal navigation and the	system 1966 Oct p 104-113
like	insect behavior, locust, nervous system, insect flight, response to
animal communication, insect behavior, social insect, bee dances,	stimuli, schistocerca gregaria 1971 Aug p 74-81 [1231]
directional orientation, 'language of the bees'	chemotaxis, herring, shad migration, homing behavior, temperature as
bee dances, more on the 'language of the bees' 1948 Aug p 18-21 [21] 1953 July p 60-64	migration control 1973 Mar p 92~98 [1268] insect behavior, ants, bee, insect eye, polarized light
fish communication, crustacea, whale, porpoises, marine biology,	1976 July p 106–115 [1342]
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bird song, learning, innate behavior, animal behavior	animal psychology, see also comparative psychology
1956 Oct p 128–138 [145]	animal sacrifice, oxtail omen experimentally demonstrated
ants, insect behavior, ant 'guests', comensalism, parasitism,	1966 Feb p 54
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1971 May p 98–108 [1222]	animal vectors, encephalitis, virus disease, influenza virus
ape language, chimpanzee learning, Sara learns grammar to 'read'	1949 Sept p 18-21
1972 Oct p 92–99 [549]	brain disease, scrapie, kuru, Chediak-Higashi syndrome, virus disease,
bird song, bell shrike, bird duets 1973 Aug p 70-79 [1279]	multiple sclerosis 1967 Jan p 110-116
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, synchronous flashing of fireflies 1976 May p 74-85 brown rat, rats 1977 May p 106-116 [577]	nature and action of synthetic detergents 1951 Oct p 26-30
brown rat, rats 1977 May p 106-116 [377] stereotyped dances of bees 1957 Mar p 70	aniseikonic lenses, visual perception, 'Ames room', personality, anxiety,
insect behavior, signal dance of the blowfly 1957 May p 72	'Honi' phenomenon, emotional relationships condition perception
ornithology, Lanarius erythrogaster song 1963 May p 80	1959 Apr p 56-60
insect behavior, cricket song, mole cricket 1972 Feb p 44	anisotropy, cobalt-rare earth alloys, magnetism, permanent magnets,
animal domestication, agricultural history, archeology, plant	magnetic domains, Alnico 1970 Dec p 92-100 Annelida, feather duster worm, lugworm, biological clock, circadian
domestication, food and agriculture 1976 Sept p 88-97	rhythm, marine worm 1959 June p 132–142
animal electricity, Galvani, voltaic pile, a major discovery in physics as	anomalous diffusion, magnetic field, plasma instability, thermonuclear
well as biology 1950 Feb p 40-43 animal husbandry, cattle, dairying, Zebu cattle, European cattle, selective	reaction, fusion reactor, magnetic bottle, nuclear power, leakage of
stock breeding 1958 June p 51–59	plasma 1967 July p 76-88
antelone giraffe elephant, buffalo, rhinoceros, hippopotamus, wildlife	'anomalous' water, 'biological' water, blood, hemoglobin, water,
husbandry in Africa 1960 Nov p 123-134	membrane permeability, osmosis, erythrocyte, van 't Hoff law 1971 Feb p 88-96 [1213]
agricultural technology, poultry production, food production, chicken,	Anopheles mosquito, tropical medicine, malaria, Plasmodium,
age: 11 S. chicken factories 1966 July p. 30-04	enidemiology, W H O malaria eradication 1962 May p 86-96
water buffalo, domestic animals, agricultural water buffalo as draft and heef animal 1967 Dec p 118-125 [1088]	anoxia, epidemiology, stress, pregnancy, Down's syndrome, trisomy 21,
200 - 1000 - 76 00	etiology of Down's syndrome 1952 Feb p 60-66
Karinojong, carro, sussentias and natural history of mule	ant 'guests', ants, insect behavior, animal communication, comensalism, parasitism, pheromones 1971 Mar p 86-93 [1213]
1970 Dec p 102-109 [1200]	parasitism, pheromones 1971 Mar p 86-93 [1213] Antarctic climate, no warmer 1953 Jan p 34
aggregation energy cycle apprening at system bower, their comment	Anteretic continental glacier, Antarctica, glaciation, ice, stratigraphy,
tropical agriculture 1971 Sept. p. 110–132 [000]	volume of ice in glaciers ecological implications
dwarf chickens 1971 June p 59	1962 Sept p 132-146 [861]
endangered species in 2005	Antarctic convergence, food chain, plankton, krill, whale, Euphausia
1977 Oct p 81	superba 1958 Jan p 84-89 [853] Antarctica, ocean circulation, Antarctic Ocean, physical oceanography
who-domestic hybrids whole extinction 1955 Jan p 62-66	5 A magratic 1902 SCDL D 113-128 18001
animal inigration, gray where, food supply 1955 Dec p 92-100	Amarine oceanography, marine biology, food chain krill, blue
1 a company of the World archeology, being the	whale, ecology, biological province of Antarctic convergence
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1972	July p 14-25 [345]	aquatic insect, insect eggshell, respiration, ada	
antivivisection, scientists sue Hearst	1949 Sept p 26	selective permeability of insect surface tension, water-strider, backswimme	1970 Aug p 84–91 [1187]
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Hearst settles libel suit	1953 July p 46	aquatic life, thermal pollution, nuclear power,	ındustrıal cooling, water
US legislation	1963 June p 70	pollution, cooling towers, waste heat	1969 Mar p 18–27 [1135]
laboratory animals	1966 Mar p 55 1966 June p 56	see also marine life aqueducts, ground water, irrigation, tunneling	. Iran, underground system.
judicial ruling on 'justifiable pain' US Federal legislation on animal experimentation		3,00 years old, still in use	1968 Apr p 94-105
antler, evolution, horn, osteogenesis, bone, keratin, un	ngulates, differences	Roman technology, siphons, water-supply s	
between horns and antlers 1969 Ap	or p 114–122 [1139]	Arabia, irrigation, trade, Near East, frankince	1978 May p 154–161 [3009]
ants, insect behavior, social insect, army ant, comparare reproduction, feedback, pheromones, trophallax	ative psychology,	archeology, cultures of southern Arabia	
philosophy of science, anthropomorphism	1948 June p 16–23	arachnid, spiders, spider webs, evolution, orb	web 1960 Apr p 114-124
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1976 Ji	uly p 106-115 [1342]	analysis	1952 Feb p 24-28
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'Honi' phenomenon, emotional relationships co	ndition perception 1959 Apr p 56-60	B C, preclassical Greek link with East Lydian civilization, Croesus, Sardis, 6th cer	1959 July p 100–109
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196	69 Feb p 69-75 [521]	Mohenjo-Daro, Harappan civilization, Inde	us valley, Sumer
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antigens, protein synthesis, immunology, immune response, mutation	antigen societion diseases makes the second
selection theory of immunity 1961 Jan p. 52,67 t	
aitigens, immune response, hypersensitivity, phagocytosis	to a state disease, diffinal vectors, Hong Rong Hu, swine flu
inflammatory response, leukocyte, allergy, thymus gland lymphati	antigens, allergy, immune reaction, antibodies, serum sickness,
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1976 May p 30–39 [133	immunoglobin, lymphocytes, B-cells, T-cells
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1977 Jan p 50–59 [1350	immunoglobin, Bence-Jones proteins, Fab fragments, Fc unit
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antibody molecule, amino-acid sequence, antibodies, immunoglobin,	Antikythera, planetary motion, Greek computer, ancient instruments, science history, Classical archeology, computer technology, 2,000-
Bence-Jones proteins, heavy chain, light chain, antigen-antibody	year-old computer 1959 June p 60–67
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myeloma, immunoglobin, antigen binding, Bence-Jones proteins,	gear train reconstructed 1974 Apr p 50
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1955 Apr p 42-44	atom, Pauli, exclusion principle, theoretical physics, quantum
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1962 Nov p 50-57 [138]	science 1967 Jan p 98–108
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anticodon, amino acids, DNA, protein synthesis, genetic code, mutation,	bottle 1968 Jan p 72-85
molecular biology, triplets, RNA, ribosomes, triplets, wobble	high energy physics, colliding beam accelerator, electron-positron
hypothesis 1966 Oct p 55–62 [1052]	annihilation, proton, parton model, quantum electrodynamics 1973 Oct p 104-113
anticyclones, wind, meteorology, atmospheric circulation, cyclone, source	electron-positron annihilation, J particle, psi particle, charm, color,
of prevailing winds 1956 Dec p 40-45 [841]	quark, high-energy physics, storage rings, virtual particles
antifungal agent, from fungus 1953 Apr p 52	1975 June p 50-62
antigen-antibody reaction, ionic bonds, covalent bonds, hydrogen bonds,	crystal structure, gamma radiation, gravitational interaction, positron
Van der Waals force, long-range forces, chemical bond, proposed intermolecular long-range force 1948 Oct p 14-17	probes, solid state physics, scintigraph 1975 July p 34-42
intermolecular long-range force 1948 Oct p 14-17	antineutron demonstrated 1956 Nov p 64
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reference and in the laboratory 1951 May p 43-51	antineutron, antimatter, high-energy physics, antiproton, Bevatron
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1951 July p 37-03	antinomy, paradox, mathematical logic, logic, barber paradox, undecidable questions, Godel's proof, Grelling's paradox,
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1937 Oct p 22-100	antiproton, positron, proton, Bevatron, antimatter, high-energy physics,
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Jones proteins, amino-acid sequence, antibody an	experiment designed 1949 Dec p 30
Jetamination 1970 Aug P 34 42 [1000]	Direc substantiated 1935 Dec p 40
antigen complement, antibodies, immune response, lymphocytes, virus	formal change substantiated 1904 July D 44
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US ABM system capabilities and limitations 196	8 Mar p 21-31	plastics, high-temperature-resistant plastics 1969 July p 96–105
ABM, MIRV, SALT, deterrence, ICBM, counterforce s	trategy,	benzene derivatives, molecular structure, aromaticity
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1970 Ja	n p 19–29 [654]	environment experience in normal development
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	p 15–25 [1176]	structures, macroscopic information increase 1975 Dec p 56-69
ABM systems, ICBM, MIRV, atomic weapons, SALT,		arroyo, climatic change, flash floods 1952 Dec p 70-76
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	71 Jan p 15–25	Escher's prints, optical illusion, perception of pictures, psychology,
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	73 Nov p 18–27	epidemiology, cholesterol, coronary occlusion, diet, lipids, plaque,
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arrandarran CALT MIDY MADY	74 May p 20–31	atherosclerosis, coronary disease, medicine, thrombus, monoclonal
expenditures, SALT, MIRV, MARV 19 counterforce strategy, atomic weapons, cruise missiles,		hypothesis, plaque formation 1977 Feb p 74–85 [1351]
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civil defense, fallout, limited nuclear warfare, technological		arteriole, capillary bed, blood circulation, mesentery, venule,
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cruise missiles, SALT, strategic weapons, tactical weap	ons control	artery prostheses, cardiovascular disease, vascular surgery,
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neutron bomb, atomic weapons, tactical nuclear weap		1961 Apr p 88–104
decision to develop and deploy enhanced radiation	weapons	artesian well, ground water, piezometric surface, water table, water cycle,
1978 Ma	y p 44-51 [3007]	resource management, runoff, ground water in water-resource
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•	-	irrigation, ground water, agricultural technology, Sahara desert, water
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	1949 Dec p 26	water, making desert fertile 1966 May p 21-29
U S accelerates production of atomic weapons	1950 Mar p 26	arthritis, gout, colchicine, metabolism, chemistry of gout
Kapitza 'on strike'	1957 Feb p 57	1958 June p 73–81
US and USSR. capabilities	1960 Dec p 76	medical diagnosis, thermography, tumor, skin temperature, circulatory
lunar radar reflection trips missile alert	1961 Feb p 66	disorders 1967 Feb p 94–102
USSR. breaks moratorium, tests big H-bombs	1961 Oct p 80	an infectious disease? 1951 Aug p 30
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thermonuclear-weapons test in China Nike-X ABM	1966 July p 48 1967 July p 40	artificial diamonds, lithosphere, ultra-high pressure, coesite, borazon.
China's first fusion bomb explosion	1967 Aug p 38	properties of matter under 2×10^6 p s 1 1959 Nov p 61–67
Nike-X ABM	1967 Nov p 52	artificial fibers, natural fibers, spinning technology, textile fibers, yarn
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world military expenditures	1971 July p 42	organ transplant, mechanical heart implant
B-1 bomber planned	1973 May p 42	1965 Nov p 38–46 [1023]
strategic-arms modernization under SALT	1973 June p 38	artificial intelligence, computer chess, automata theory, 'thinking'
after MIRV, MARV maneuverable reentry vehicle	1973 Dec p 55	approaches an operational definition 1950 Feb p 48-51
US budget increase	1974 Mar p 44	computer chess, chess-playing computer 1958 June p. 96-105
land-based missiles, triad concept	1974 Apr p 48	language, Loglan, linguistics, 'language of logic' 1960 June p 53-63
SIPRI report	1974 Dec p 60	computer technology, pattern recognition 1960 Aug p 60–68
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'Missile X', mobile ICBM's	1977 Mar p 58	1966 Sept p 246–260
reviewed by U N	1977 Nov p 70	computer chess minutes of man-machine chess game
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Armstrong, radio communication, frequency modulati	1972 Jan p 44	response to light 1975 July p 68-77 [1325] artificial membranes, cell membrane, enzymes, enzyme action, enzymes as
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1065 Nov 40	seismology, atomic bomb test, underground nuclear explosions, how to
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1963 Nov p 78–92	atomic weapons tests 1966 July p 19-29 atomic test ban, seismology, underground nuclear explosions,
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1974 May p 98–106	1972 Ian n 13_23 [343]
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1960 Dec p 134-144	administration 'comprehensive proposal' for US-USSR. force
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1968 Sept p 190–202	nuclear power, atomic-weapon proliferation, plutonium fuel cycle,
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,	1948 Oct p 25	atomic clock, ammonia maser, cesium clock, mas	1952 Mar p 34
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'Atomgrad', rumor and speculation	1949 Nov p 26	effect, general relativity tested by atomic clo	ck
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•	·	explosion, search for constructive use for nucl	ear explosions
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A E C 'effects' handbook	1950 Sept p 44	atomic microscope, X-ray diffraction, diffraction	1951 July p 56-57
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US tactical nuclear weapons	1951 Nov p 32 1955 July p 50	nuclear physics, high energy physics, particle-sca	
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tissue on ionizing radiation	1959 Sept p 74-83	charge exchange, spin-orbit force, resonance 'pa neutron, structure of the nucleus	1959 Jan p 75–82
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radiation damage, ionizing radiation, leukemia, imm fallout, nuclear medicine, radiation damage, whol	nune response,	accelerator, memo 2 and reasons ago to a ago.	1960 Mar p 98-114
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environmental pollution, ionizing radiation, fallout,	radiation damage,	structure of atomic nucleus	1964 Mar p 79–88
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1959 Sept	p 219-232 [1214]	and size of nucleus	1969 Aug p 58–73
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'newer alchemy'	1966 Aug. p. 88–94	biotin, B vitamin, function of little-known B vit	1960 Nov. p. 104-11
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	1970 May p. 116–122	chloroplast, mitochondrion, photosynthesis, cel	1961 June p. 139-14
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- apaoning did init	1968 Mar. p. 21-31	chlorophyll, photosynthesis, chloroplast, electro	1901 Sept. p. 62-73 [9
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muscle, glycolysis, aerobic metabolism, oxygen debt, lactic acid	
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mechanisms in muscle 1972 Mar p. 84-91 1124	1061 Oct = 122 142
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metabolism, cyclic AMP, activation of cyclic AMP by hormones	branniapholics, eligindening of sound everence loci A
1972 Aug p 97-105 [1256	directional orientation, bearing duditors lead
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troponin, calcium, microstructure of muscle filament and	soliar, bats, predator-prey relationship, moths, ultrasound, moth so
biochemistry of contraction 1974 Feb p 58-71 [1290	detection of dat ultrasound 1065 Apr n 04 102 13
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1975 Dec p 30–37 [1332	auditory beats, brain, hearing, neurology, sound vibrations
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1965 Apr p 46-54 [493]	communication, noctifucent clouds, meteorology 1949 Jan p 30-
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1962 Apr p 143–151 [467]	Earth, airglow, corpuscular streams, solar spicules, nightglow, aurora
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1965 Apr p 46-54 [493]	Antarctica, Earth magnetic field, 'whistlers', upper atmosphere, solar
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1963 NOV P 18-32	tool and fire user 1960 May p 95
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schizophrenia 1967 Mar. p. 78–86 [505] rubella, measles implicated in autism 1972 Dec. p. 42	chromatography, process control, control systems, predictive control
nutoimmune disease, autosensitivity, nervous disease, multiple sclerosis,	1969 June p. 112–120
allergic mechanisms in nervous disease 1949 July p. 16-19	control systems, feedback, water clock, thermostat, windmills, flyball governor, origins of feedback control 1970 Oct. p. 110–118
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glomerulonephritis, lymphocytic choriomeningitis, serum sickness 1973 Jan. p. 22–31 [1263]	computer technology, instructable machines, robot systems,
autolysis, lysosomes, enzymes, phagocytosis, pinocytosis, metamorphosis,	servomechanisms 1976 Feb. p. 76–86B
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1967 Nov. p. 62–72 [1085]	automatic factory, on paper 1951 Sept. p. 58
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regulation, computer science, mechanical, biological, social sen- regulation 1948 Nov. p. 14–19	design 1955 Aug. p. 29–33
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operational definition 1950 Feb. p. 48-51 feedback, artificial sensory organs, mechanical behavior, an imitation	landing system, precision approach radar, ground-controlled approach 1964 Mar. p. 25–35
of life 1950 May p. 42–45	automatic research, cell analyser 1949 Sept. p. 30
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self-reproducing machine, 'artificial living plants' 1956 Oct. p. 118–126	electric automobile lectric auto
molecular replication, self-reproducing machine, computer technology,	progress in electrical propulsion 1966 Nov. p. 66
machine models of molecular assembly 1959 June p. 105–114 [74] biological sciences, mathematics, self-reproducing machine, nerve	electric for short hauls 1967 May p. 58 automobile design, technology history, automobile racing, Paris-Bordeaux
impulse, predation, Turing machine, mathematics in biology	race of 1895 1972 May p. 102–111
1964 Sept. p. 148–164	airbag, automotive safety, seat belts, crashworthiness tests
automatic cell sorting, blood cell analysis, computer analysis, lymphocytes, pattern recognition, automatic analysis of white cells	1973 Feb. p. 78–86 automobile emissions, air pollution, smog, ozone, urban transport, air
1970 Nov. p. 72-82	pollution control in Los Angeles 1964 Jan. p. 24-31 [618]
cell sorting, fluorescence-activated technique 1976 Mar. p. 108-117 automatic control, cybernetics, feedback, self-regulation, computer	automobile engines, high compression, 'knock', combustion chamber design, high-octane fuel, mechanical vs chemical solutions for
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1952 Sept. p. 44–47	1973 Aug. p. 80–87
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pneumatic servomechanisms, hydraulic servomechanisms, control systems 1952 Sept. p. 56-64	1977 Aug. p. 98-106 [697] automobile propulsion, electric power generation, energy storage,
continuous processing, fluid dynamics, petroleum refinery, control	composite materials, materials technology, flywheels
panel, automatic chemical plant 1952 Sept. p. 82–96	1973 Dec. p. 17-23
machine tool, batch process, digital-to-analogue conversion, numerical instructions, automatic machine tool 1952 Sept. p. 101–114	automobile racing, automobile design, technology history, Paris-Bordeaux race of 1895 1972 May p. 102-111
computer, solid-state electronics, analog-to-digital conversion, digital	automobile transportation, air transport, technology assessment, science
computer, analogue computer, the universal machine 1952 Sept. p. 116-130	policy, air pollution, noise pollution, technology assessment institutions proposed 1970 Feb. p. 13-21 (332)
information theory, statistics, thermodynamics, noise, redundancy.	automobiles, wheel bounce, road building, highway engineering
digital storage media, analogue storage media, information compression, information 1952 Sept. p. 132-148	'corrugated' road surface, 'washboard' road surface
productivity, capital-output ratio, labor force, economic and social	1963 Jan. p. 128-136 energy conservation, engine efficiency, fuel consumption
impact of automatic control 1952 Sept. p. 150-160 manipulators, remote control, robot, feedback, industrial manipulators	1075 Inp. n. 24 44
1964 Oct n 88 06	automotive safety, airbag, automobile design, seat belts, crashworthiness
economics, technology, input-output analysis, labor force, IIS impact	model car 1957 Apr. p. 70
of technological change, 1947-1958, input-output tables 1966 Apr. p. 25-31 [629]	Clash-proof locks
computerized design, computer technology, control systems, computer	autonomic ners ous system, learning, heart rate, blood pressure, curare, electrocardiography, learning voluntary control of autonomic
graphics, uses of computer in technology 1966 Sept. p. 176~188	nervous system 1970 Jan. p. 30–39 [525]

Zen Buddhism, physiology of module	cendental meditation, your	
"" bityslology of menitari	on 1972 Feb p 84_90 (1242	axon, neurology, nerve conduction, Schwann
	1969 Apr. p 4	
autopilot, taught to stall		cube, physiology of neural transmission
autoradiography, DNA synthesis, bacterial	Chromocomo labalada	•
incorporation in DNA chain, relation of	of template and now show	
	1066 1 26 44 110	avoneme, ATP, cell motility, cilia, flagella, mi
rod cells, cone cells, visual cells, protein s	1966 Jan p 36-44 [1030	paramecium, sperm
in retinal cells	yittiesis, renewal mechanisms	axoplasm, axon, neurology, nerve conduction
autosensitivity, nervous disease, autoimmun	1970 Oct p 80-9:	potential, perfusion technique cell perfus
allergic mechanisms in nervous disease	e disease, multiple sclerosis,	
allergic reaction poison and dermatice of	1949 July p 16–19	,
allergic reaction, poison ivy, dermatitis, rh sclerosis, delayed hypersensitivity	neumatoid arthritis, multiple	Aztec civilization, chinampa, canals, drainage,
autosomes, chromosome, gano manage	1960 Арг р 129-137	agricultural system, highly productive far
autosomes, chromosome, gene mapping, gen anomalies	etic disease, chromosomal	
	1971 Apr p 104-113 [1220]	
autotrophs, origins of life, Miller-Urey exper	iment, high-energy radiation,	
necestropies, retilientation, photograph	esis 105/1 Avia a 44 En (49)	· · · · · · · · · · · · · · · · · · ·
coology, energy cycle, plomass, solar energ	y, food chain, element	R
additionality, lielefolfophs, the ecosphere	1958 Apr p 83-92	D
auxins, apical bud, leaf scission	1055 Nov 02 00 11161	B-cells, antibody molecule, antigens, immune s
agronomy, plant growth, oak, giberellin, fu	inction of plant growth	lymphocytes, T-cells
normone	1957 Apr n 125 124 [11]	antibodies, bursa, cell differentiation, humora
serotonin, LSD, comparative physiology, n	europhysiology,	immune system, lymphocytes, thymus
physiological function of serotonin	1957 Dec n 52 56	antibodies, cell membrane, histocomptability
plant growth, cytokinins, dormin, plant ho	rmones, giberellin	response immunoalobin lamely and
	1968 July n 75_81 [1111]	response, ımmunoglobin, lymphocytes, T-c
adaptation, trees, plant hormones, tree stru	cture, ax-head model.	B vitamin, biotin, ATP, function of little-known
mechanical design of trees	1975 Iuly - 02 102	b vitalini, blotti, ATF, function of little-known
avalanche, snow, loose-snow avalanche, slab a	avalanche	Rahbaga computer difference
	1954 Ian n 26_31	Babbage, computer, difference engine, analytical
avalanche control, snow, mountains, hoar fros	st, types, causes and	computer, life and work of Charles Babbage
prevention of slides	1966 Feb p 92_101	babies, operant conditioning, learning pets, how
avascular tumors, angiogenesis, cancer, tumor	inhibition tumor	hahoons human avalution social believe
vascularization, tumor angiogenesis facto	or (TAF)	baboons, human evolution, social behavior, comp social anthropology, Kung bushmen, sexual
	1976 May p 58-73 [1339]	society society
avian, see bird, birds		social behavior, comparative psychology, sexua
avian evolution, birds from dinosaurus	1973 Aug p 44	troops in their natural environment
avian reproduction, ring dove, breeding cycle,	sexual behavior, hormone	baby boom, U S census, urbanization, age-sex dis
tertilization	1964 Nov p 48–54 [488]	central city, suburbs, US census at 1960
calcium metabolism, eggshell thinning, polli	ition, chorinated	baby fat, obesity, pathological obesity
hydrocarbons, DDT, dieldrin, insecticide,	food chain, ecological	background radiation, environmental pollution, 101
effect of pesticides	1970 Apr p 72-78 [1174]	nuclear medicine, atomic bomb test, introduc
avian respiratory system, breathing, bird bones	, lung structure	tissue on ionizing radiation
	1971 Dec p 72-79 [1238]	backswimmer, surface tension, water-strider, whirli
aviation, stratosphere, flight at high altitude	1952 Feb p 20-23	springtail, aquatic insect, insects of the water s
'sound barrier', rocket engine	1953 Oct p 36-41	1978
heat barrier, supersonic flight, lift barrier	1953 Dec p 80-84	Bacon's cipher, binary code, Boolean algebra, comp
traffic control in U S	1962 Jan p 60	history, Jacquard loom, punched cards
aviation industry, aeronautics, supersonic flight,	, commercial aircraft,	bacteria, protein synthesis, genetic code, DNA, RN
aircraft design, sonic boom, technology and	d economics of supersonic	by bacterial DNA-RNA in vitro
transport	1964 June p 25–35	sexual reproduction, conjugation, recombinant D
aviation medicine, Bert, medical history, Paul Be		recombination, sexuality in bacteria 1956
medicine	1952 Jan p 66–72	gene transformation, drug resistance, streptomyci
break-off phenomenon	1957 June p 78	recombinant DNA, biochemistry of Avery, Mcl
manned space flight	1959 Mar p 61	experiment 199
aviators, Medieval and Byzantine claimants to ti		gene transduction, bacteriophage, recombinant Di
	1961 June p 90	transduction by phage infection 1958
AWACS: airborne warning and control system a		bacteriophage, conjugation gene recombination, re
AWACS, arms race, bombers, SALT, strategic w		mechanisms of heredity and infection in bacteria
expenditures, antiaircraft sytems	1973 Aug p 11-19 1951 May p 36	1961 flies epidemiology, maggot, dysentery, virology, di
awards, Einstein and Stalin prizes		thes epidenhology, maggot, dysentery, virology, dis
ax-head model, auxins, adaptation, trees, plant h	1975 July p 92–102	symbiosis, algal bloom, blue-green algae, simplest p
mechanical design of trees		to bacteria
axe-handles, hickory, fences, smoked ham, hicko botany, forest, natural history, shagbark hick	Long 1948 Sent n 40-43	drug resistance, mutation, DNA R-factor, antibiotic
axial-flow compressor, gas turbine, aircraft propu	deign centrifueal	resistance, multiple resistance
compressor, ducted fan, electric power gener	ration	ectoparasites, skin, fungi, lice, hair, human skin ecos
compressor, ducted ran, electric power gener	1953 Nov p 65–72	1969 Jan
axiom of choice, mathematics, set theory, non-Ca		proteolysis infection viral DNA, DNA sequence, re
paradox, Cantor, non-Euclidian geometry	1967 Dec p 104-116	bacterial recognition and rejection of exotic DNA
axiomatics, mathematics, Bourbaki, philosophy o	f science, science	1970 Jar
history, labors of the mathematical collective	sell-styled Bourbaki	chemical weapons biological weapons Vietnam war,
	1957 May p 66-33	gas, virus disease rickettsiae, tear gas herbicide, ch
axis of rotation, physics, crystal structure, polygor	rs polyhedra,	warfare 1970 Ma nitrogen cycle, nitrogen fixation blue green algae Ha
philosophy of science, topological limits of pl	hysics	biosphere nitrate legumes eutrophication

1953 Jan p 50-56

cell, axoplasm, membra sion, structure of axonal concentration gradients 1966 Mar p 74-82 [1 icrotubules, how cilia mc 1974 Oct p 44-52 [1] Schwann cell, membran sion, structure of axonal concentration gradients 1966 Mar p 74-82 [10 Mexican agriculture. m plots, Aztec empire 1964 July p 90-98 [6 ystem, lymphatic system, 1973 July p 52-60 [127 al immunity, T-cells, 1974 Nov p 58-72 [130 antigens, immune ells 1976 May p 30-39 [1338 B vitamin 1961 June p 139-140 engine, digital 1952 Apr p 66-72 to teach animals 1951 Dec p 26-29 [423] parative psychology, behavior, origin of 960 Sept p 76-87 [602] il behavior, baboon 1961 June p 62-71 [614] stribution, family size, 1961 July p 39-45 1973 Aug p 44 nizing radiation, tion to single-topic 1959 Sept p 74-83 igig beetle, ecology, surface Apr p 134-142 [1387] outer history, science 1972 Aug p 76-83 A, protein synthesis 1956 Mar p 42-46 NA, gene 6 July p 109–118 [50] n, pneumococcus, Leod and McCarty 56 Nov p 48-53 [18] VA, bacterial gene Nov p 38-43 [106] ecombinant DNA, June p 92-107 [89] ease vector 1965 July p 92-99 lants, resemblance 1966 June p 74-81 s, transferable drug 1967 Dec p 19-27 ystem p 108-115 [1132] striction enzymes p 88-102 [1167] arms race, CS iemical-biological y p 15-25 [ĭ176] her process. biosphere, nitrate legumes eutrophication 1970 Sept p 136-146 [1194]

blue-green algae, fossil cells, evolution, Gunflint cherts, origins of life, Precambrian rocks, prokary otic cells, oldest fossils	microorganisms PPLO, virus, electron microscopy, cytology, smallest free-living cells 1962 Mar p 117–126 [1005
antibiotic resistance, infectious disease, drug resistance, gene mutation,	antibiotic-resistant staphylococcus bacteriophage, genetic exchange, sexual reproduction 1960 May p 9. 1948 Nov p 46-5
plasmids, Rh factor, bacterial conjugation 1973 Apr p 18–27 [1269] bacterial motility, flagella, 'twiddling', rotation of flagella	virus disease, influenza virus, bacteriophage, poliomyelitis virus antigen-antibody reaction, immunity, infection, host-specificity,
1975 Aug p 36-44 cell membrane, halobacteria, photosynthesis, rhodopsin, salt-loving	viruses in infection and in the laboratory 1951 May p 43-5 virus disease, influenza virus poliomyelitis virus, bacteriophage,
bacteria 1976 June p 38–46 [1340]	antigen-antibody reaction, immunity, infection, host-specificity,
algae, legumes, nitrogen fixation, nitrogenase, genetic engineering,	viruses in infection and in the laboratory 1951 May p 43–5
Haber process, rhizobium, legumes, symbiosis, nitrogenase, biological nitrogen fixation 1977 Mar p 68–81	genetics, reproduction, tracer experiments, DNA, protein coat 1953 May p 36-3
biological nitrogen fixation 1977 Mar p 68-81 bioluminescence, fish, flashlight fishes, symbiosis	virus, life cycle, reproduction, provirus 1954 Mar p 34–3
1977 Mar p 106–114	virology, recombinant DNA, provirus, modified virus
barophilic bacteria, deep-sea environment, deep-sea microbes, Alvin	1955 Apr p 92–98 [24
submersible 1977 June p 42–52 [926]	bacteria, gene transduction recombinant DNA, bacterial gene transduction by phage infection 1958 Nov p 38-43 [106
in crystalline array 1955 Jan p 44 algae, photoelectric effect 1964 Mar p 59	bacterial-cell wall, lysozyme homeostasis, bacterial cytoplasm,
bacteria disrupted, synthesize proteins 1954 Oct p 49	protoplasts, flagella, dissection of bacteria by lysozyme
bacterial cell, cell wall, bacterial metabolism, penicillin, polysaccharides,	1960 June p 132–142
glycopeptides, membrane 1969 May p 92–98	bacteria, conjugation, gene recombination, recombinant DNA, mechanisms of heredity and infection in bacteria
bacterial-cell surface, glycocalyx, bacterial infection, infective specificity, how bacteria stick 1978 Jan p 86-95 [1379]	1961 June p 92–107 [89
bacterial-cell wall, lysozyme, homeostasis, bacterial cytoplasm,	DNA, gene mapping, chromosome, mapping genes by induced and
protoplasts bacteriophage, flagella, dissection of bacteria by	spontaneous mutations 1962 Jan p 70-84 [120
lysozyme 1960 June p 132–142	adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma virus herpes virus, influenza virus, vaccinia virus, tobacco mosaic
bacterial chromosome, autoradiography, DNA synthesis, labeled thymine, incorporation in DNA chain, relation of template and new	virus, structure of viruses 1963 Jan p 48–50
chain 1966 Jan p 36–44 [1030]	gene mapping, amber mutants, virus particles
bacterial conjugation, antibiotic resistance, bacteria, infectious disease,	1965 Feb p 70-78 [1004
drug resistance, gene mutation, plasmids, Rh factor	virus structure, polyhedra, virus shell, assembly of T4 subunits from core out 1966 Dec p 32-39 [1058
1973 Apr p 18–27 [1269] bacterial cytoplasm, bacterial-cell wall, lysozyme, homeostasis,	core out 1966 Dec p 32–39 [1058 virus structure, T4 virus, DNA, mutation, morphogenesis, test-tube
protoplasts, bacteriophage, flagella, dissection of bacteria by	reconstruction of viral components 1967 July p 60-74 [1079
lysozyme 1960 June p 132–142	receptor specificity, cell membrane, bacterial receptor sites, O antigen,
bacterial infection, antibiotics, aureomycin, virus disease, rickettsial	Salmonella 1969 Nov p 120–124 [1161 electrical attachment 1953 Aug p 44
disease, 'broad spectrum' antibiotic 1949 Apr p 18–23 blood proteins, gammaglobulin, antibodies, immunology, tissue grafts,	electrical attachment 1953 Aug p 44 one-molecule DNA virus 1958 July p 52
agammaglobulinemia, hereditary immunological deficiency	pılı 1967 Dec p 55
endotoxins, exotoxins, toxins, bacterial toxin, effects of endotoxins	bacteriophage structure, gene expression, latent viruses, provirus, virus action, coexisting viruses, viral genes in host chromosome
1964 Mar p 36-45 bacterial-cell surface, glycocalyx, infective specificity, how bacteria	1976 Dec p 102–113 [1347] badger, dog, horse cheetah, locomotion, deer, comparative anatomy,
stick 1978 Jan p 86-95 [1379]	running, how animals run 1960 May p 148-157
bacterial magnets, magnetic-field tropism observed in bacteria 1978 Mar p 72	Baffin Island, energy cycle, Eskimo, hunting societies, food chain, seal, power, ecosystem 1971 Sept p 104-115 [665]
bacterial metabolism, bacterial cell, cell wall, penicillin, polysaccharides,	bags under the eyes, J.A M A colloquy 1951 May p 38
glycopeptides, membrane 1969 May p 92–98 bacterial motility, bacteria, flagella, 'twiddling', rotation of flagella	baking, yeast, brewing, nboflavin synthesis, cryptococcal meningitis, fermentation, cell physiology, yeasts, useful and noxious
1975 Aug p 36-44 cell motility, chemotaxis, flagellar action, E.coli	balancing rock, capstones explained 1960 Feb p 136–144 1974 Mar p 46
1976 Apr p 40–47 [1337]	ball lightning, nuclear fusion, gas plasma, ionization, Kapitza theory, Hill theory 1963 Mar p. 106–116
bacterial resistance, antibiotics, infectious disease, toxicity, virus disease, status of new medical technology 1949 Aug p 26-35	theory 1963 Mar p 106-116 ballistic missile, see atomic weapons, ICBM, SLBM and the like
bacterial toxin, bacterial infection, endotoxins, exotoxins, toxins, effects	ballistics, shock waves, shadow photography, speed of sound, Mach
of endotoxins 1964 Mar p 36–45	cones, aerodynamics 1949 Nov p 14-19
tetanus, botulism paralysis, nerve impulse, inhibitory impulse synapse, motor neuron, Clostridium tetani, Clostridium botulinum	calone heat theory, science history, oven, Rumford heat as motion Benjamin Thomson, biography 1960 Oct p 158-168
1968 Apr p 69–77	balloon astronomy, Sun, ultraviolet radiation 1959 May p 52-59
plague bacillus Black Death respiration, electron transport,	spectrometry, Venus, infrared astronomy 1965 Jan p 28-37
mechanism of death by plague toxin 1969 Mar p 92-100 cholera, disease medical care, sanitation water supply, epidemiology	solar observatory 1957 Sept p 107 balsam, forestry, spruce, climax ecosystem birch, climax forest of
1971 Aug n 15–21	Northeast U.S. 1948 Nov. p. 20-23
bacterial transformation, gene transformation Diplococcus pneumoniae, extra-cellular activator of transformation competence	juvenile hormone, species specificity, DDT, third-generation
bacterial virus, see bacteriophage 1969 Dec p 38-44	pesticides 1967 July p. 13_17 (1078)
bacterology, caries dentistry, fluoridation new theory of tooth decay	Bambuti, Pygmies, Congo, social anthropology, symbyotic relationship of jungle Pygmies and pastoral-village peoples
1948 Oct p. 20–23	1963 Jan n 29 27 (415)
tuberculosis tubercle bacillus biology of the germ	bandwidth, carrier-wave modulation, coaxial cable communication
biological pest control agricultural pest insecticide, insect physiology,	technology, electromagnetic spectrum fiber optics radiowave.
virology, entomology living insecticides 1956 Aug n 96-104	Bantu language, Africa, Early Iron Age culture, language diffusion,
caries, dentistry tooth enamer causes of tooth decay	1077 4 406 444
mutation penicillin drug resistance 1957 Dec p 109-116 1961 Mar p 66-71	barber paradox, antinomy, paradox, mathematical logic, logic, undecidable questions Gödel's proof, Grelling's paradox,

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battered child syndrome, children's injuries

Epimenides' paradox, Zeno's paradox, paradox and foundations of	hattan fuel cell electronic
logic 1962 Apr. p. 84_06	battery, fuel cell, electric power generation, energy transformation, energy
symbolic logic, Dodgson, mathematics, paradox 1972 July n. 38-46	contonies, direct conversion chemical to electric energy
barbiturates, hypnotics, tranquilizers, sedatives, anesthesia, pharmacology	
1958 Jan p 60-64	, , , , , , , , , , , , , , , , , , ,
Bardeen, Cooper, Schriever theory, see BCS theory	
barge transport, canals, technology history, transportation, in U S	automobile, electric automobile, air pollution, weight, cost,
1076 Lib 116 154	performance of electric automobile 1966 Oct. p. 34-40
harium clouds, plusma, color reduction, appeal to 1 July p. 116–124	" A T T T T T T T T T T T T T T T T T T
barium clouds, plasma, solar radiation, ionosphere, Larth magnetic field,	of averages to norm 1977 May p 119-126 [363]
geomagnetism, magnetosphere electric field artificial plasma clouds	BCS theory: Bardeen, Cooper, Schriever theory
from rockets 1968 Nov p 80-92	BCS theory, crystal structure, electrical properties of metals, intermetallic
barley, agronomy, salt-tolerant crops 1976 Aug p 44D	compounds, intercalated crystals, superconductors, layered
barracle, ATP, muscle contraction, calcium, bioluminescence, aequorin,	superconductors 1971 Nov p 22–33
calcium ions in muscle construction 1970 Apr. p. 84-93 [1175]	beaches, sand dune, sand bar, berm, ocean, surf, rip channels,
Barnard's star, a solar system 1969 June p 58	conservation of beaches 1960 Aug p 80–94 [845]
barometer, meteorology, radiosonde, rain gauge, anemometer,	bearing, friction, stick-slip friction, violin bow, lubrication, uses and
hygrometer, instrumentation of meteorology 1951 Dec p 64-70	prevention of friction 1956 May p 109-118
barophilic bacteria, bacteria, deep-sea environment, deep sea microbes,	friction, mechanical engineering lubrication, sliding, rolling
Alvin submersible 1977 June p 42–52 [926]	pressurized-contactless bearings 1966 Mar p 60-71
Barr body, sex differences, chromosome, genetic mosaic, cytology,	friction, gears, technology history, Leonardo, Codex Madrid I
Klinefelter's syndrome, Turner's syndrome, chromosomal anomalies,	1971 Feb p 100–110
sex differences in tissue cells 1963 July p 54-62 [161]	
barred galaxy, gravitational collapse, galactic evolution, spiral galaxies	
elliptical galaxies, evolution from taxonomy 1956 Sept p 100-108	
Baruch plan, arms race, USSR atomic bomb, Acheson-Lilienthal plan,	bedbugs, spiders, leeches, spermatozoon transfer, sponges, sexual
US negotiating position at termination of 'atomic monopoly'	reproduction, unorthodox methods of sperm transfer
1949 Nov p 11–13	1956 Nov p 121–132
baryons, high-energy physics, mesons, 'strong' force, 'eightfold way',	bee, animal navigation, crustacea, solar navigation 1954 Oct p 74-78
conservation laws, Regge trajectory, resonance 'particles', 'bootstrap'	bumblebee energetics, flower, symbiosis 1973 Apr p 96–102 [1270]
hypothesis 1964 Feb p 74–93 [296]	insect behavior, ants insect eye, animal navigation, polarized light
high-energy physics, hadrons leptons, mesons, quantum numbers,	1976 July p 106–115 [1342]
quark confinement, bag model, infrared-slavery model, string model	'dancing' communication 1962 Dec p 70
1976 Nov p 48–60	killer bees, reputation inflated 1976 Jan p 63
basal metabolism, Ama, diving, diving women, Korea, Japan, breathing,	bee dances, insect behavior, social insect, animal communication,
human physiology, adaptation 1967 May p 34-43	directional orientation, 'language of the bees'
hibernation, homeothermy, circadian rhythm feeding behavior,	1948 Aug p 18–21 [21]
circannual rhythm, hypothalamus, squirrels, dormice in hibernation	animal communication, more on the 'language of the bees'
1968 Mar p 110-118 [513]	1953 July p 60-64
basalt, Earth mantle, plastic zone, seismology, isostatic equilibrium,	insect behavior, social insect, evolution, evolutionary 'dialects' of
Mohorovicic discontinuity, plastic zone at depth between 37 and 155	'language of the bees' 1962 Aug p 78–86
miles 1962 July p 52–59	communication, honeybee, insect behavior, honeybee sound
base, protein structure, amino-acid sequence, gene-protein colinearity,	communication 1964 Apr p 116–124 [181]
DNA structure, mutation, gene mapping 1967 May p 80-94 [10/4]	insect behavior, directional orientation, species specificity, evolution,
base triplets. DNA, genetic code, protein synthesis, nucleotide sequence,	communication by sound, by dancing 1967 Apr p 96-104 [1071]
codon, base triplet established as codon 1962 Oct p 66-74 [123]	insect behavior, pheromones, sex attractants, courtship display
baseball, properties of 'perfect curve' 1959 May p 71	1972 Sept p 52–60 [1280]
outfielder's trigonometry 1969 Jan p 49	Frisch work dazzles Thorpe 1949 Sept p 30
computer simulation 1974 Oct p 63	swarming warble 1955 Apr p 54
knucklehall dynamics 1976 Jan p 63	communication 1970 Oct p 60
base cello viola violin Chladni patterns, music, musical instruments,	beef, tenderizing process 1951 May p 32
physics of violing 1904 NOV p 10-33	beer, enzymes, yeast, brewing, fermentation, hops, chemistry and
bassoon, musical instruments, vibrating air column, clarinet, oboe, flute,	microbiology of brewing 1959 June p 90–100
Emplish horn coverhone physics of the WOOD WINGS	heavy water in brewing process 1956 Aug p 54
1960 Oct p 144-134	beetle, cattle, coprid beetles, dung beetles 1974 Apr p 100-109
bet somer somer enemal payingation ultrasonic signal, bat navigation	insect behavior, burying beetles, beetle reproduction
demonstrated in laboratory 1950 Aug p 52-55	1976 Aug p 84–89 [1344]
data and decomposition hate congreeche-sounding, sensory	behavior, speech, facial expression, vocal display, nonverbal
percention supersonic sonar of bats 1936 July p 40-49 [1124]	communication, facial expression in communication
betch process, automatic control machine tool, digital-to analogue	1965 Oct p 88–94 [627]
mumorical instructions amoniant macinic too.	self esteem, child development, personality 1968 Feb p 96–106 [511]
1952 Sept p 101–114	value judgments, pleasure 1968 Dec p 84-90 [518] encephalitis, hyperactive child, temperament, genetic disease,
bathtub vortex, see Corrolis effect	amphetamines, possibly innate disease syndrome
and the second of the second s	1970 Apr p 94–98 [527]
	aplysia, neurones, learning, memory, synapse, heterosynaptic
A second or control telemetry. Heleolology, Itoliticast	facilitation, memory and learning at nerve cell level
	1970 July p 57–70 [1182]
07 22	see also insect behavior, fighting behavior and the like, behavioral
bathyscaph, ocean floor, submarine 'blimp' 1958 Apr p 27–33	adaptation, courtship display, etc
1957 1.00 P 100 P	t the story biochemistry, cholinesterase correlation 1955 Feb p 58
auditory discrimination, bat sonar, sonar, ecno-sounding, sensor)	behavior disorders, learning stress, animal behavior, stimulation in
sonar predator-prev relationship, moths, auditory perception,	behavior modification, ethical questions 1957 Jan p 58
	19/4 May n 60
ultrasound, moth sonar detection of bat unitasound 1965 Apr p 94–102 [1009] 1972 Oct p 47	bobas joral adaptation, termite, social insect, cen analogy, insect behavior
ottered child syndrome, children's injuries	1953 May p 74-78

homeothermy, clothing, clothing and body-temperature control 1956 Feb p 109-116	Alaska, stone artifacts, gateway to America 1968 June p 24–33
birds, geographical distribution, speciation, ornithology, bird	Berlese funnel, cryptozoa, natural history, ecological niche, cryptosphere,
migration, adaptation, provinciality of birds 1957 July p 118–128	animal behavior, life under rocks and rotting logs
birds, camouflage, caterpillars, mimicry, defense by color	1968 July p 108–114 [1112]
1957 Oct p 48–34	berm, beaches, sand dune, sand bar, ocean, surf. np channels,
penguin, sexual behavior, Antarctica, natural history	conservation of beaches 1960 Aug p 80–94 [845] Bert, aviation medicine, medical history, Paul Bert, 'father' of aviation
1957 Dec p 44–51	medicine 1952 Jan p 66–72
'cold-blooded' animals, pigmentation, thermoregulation, lizard, reptile, behavioral thermoregulation 1959 Apr. p 105–120	berylliosis, occupational health, phosphorus, fluorescent light, chelation,
behavioral thermoregulation 1959 Apr. p 103–120 sand dune ecology, thermoregulation, succulent plants, symbiosis,	high technology disease 1958 Aug p 27–33
adaptation, adaptive mechanism for life in hot acid environment	Manhattan Project casualty 1951 Jan p 27
1959 July p 91–99	beta chain, collagen, proteins, alpha helix, polypeptide synthesis,
ground squirrels, Mojave desert, animal behavior, kidney function,	polymers, amino acids, synthesis and architecture of proteins
thermoregulation, desert adaptation, desert mammals' adaptations	1957 Sept p 173-184 [7] beta decay, neutrino, elementary particles, neutron decay, alpha decay,
to heat and aridity 1961 Nov p 107-116	setting trap for detection of theoretical particle 1956 Jan p 58–68
alkaloids, butterfly, larvae, symbiosis, insect repellants, plant evolution, mimicry, butterfly-plant association 1967 June p 104-113 [1076]	neutrino, particle accelerator, muon neutrino, a particle interaction,
mouse, water retention, physiological adaptation, Mus musculus,	'weak' force, experiment demonstrating existence of muon neutrino
commensal of man 1969 Oct p 103-110 [1159]	1963 Mar p 60–70 [324]
Australia ecology, insect behavior, sand wasps, solitary insects,	alpha decay, transuranium elements, isotopes, nuclear stability,
Bembix 1975 Dec p 108–115	radioactive decay, 'synthetic' elements, periodic table, the 'superheavy' elements beyond 103 1969 Apr p 56-67
animal communication, firefly, bioluminescence, insect behavior, synchronous flashing of fireflies 1976 May p 74-85	'superheavy' elements beyond 103 1969 Apr p 56-67 bubble chamber experiments, high-energy physics, hadrons, neutrino
synchronous flashing of fireflies 1976 May p 74-85 behavioral genetics, cricket song, insect behavior, nervous system	beam, particle accelerator, positron 1973 Aug p 30–38
1974 Aug p 34-44 [1302]	antimatter, bias for positive 1966 Aug p 40
behavioral psychology, Pavlov, conditioned behavior, biography and	Betelgeuse, giant star, photographic close up 1975 Feb p 42
appraisal of I P Pavlov 1949 Sept p 44-47	Bevatron: billion electron volt proton synchrotron
color vision, learning, conditioned behavior, Skinner box, visual	Bevatron, particle accelerator, cosmotron, high-energy physics,
discrimination, pigeons conditioned to respond to discrete wavelengths of light 1958 Jan p 77-82 [403]	technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20-25
wavelengths of light 1958 Jan p 77-82 [403] emotional deprivation, maternal deprivation, rhesus monkeys,	antiproton, positron, proton, antimatter, high-energy physics,
surrogate mother, infant monkey 'love' 1959 June p 68–74 [429]	postulation and discovery of antiproton 1956 June p 37-41 [244]
learning, visual perception, Fechner's law, psychophysics, Skinner box,	antimatter, high energy physics, antiproton, antineutron, cosmology,
conditioned behavior, pigeon perception 1961 July p 113-122 [458]	'universon', 'cosmon', 'anticosmon' 1958 Apr p 34-39
conditioned behavior, learning, kinesthetic memory, place-learning	5 Bev 1954 May p 52
1963 Oct p 116–122 [479] asocial behavior, criminal law, human behavior, punishment,	Bible, science teaching, evolution, religion, curriculum reform, Darwinism, creationism, high school, Man, a Course of Study,
criminology, milieu therapy, behavioral science and the criminal law	biological sciences curriculum study 1976 Apr p 33–39
1963 Nov p 39-45 [480]	Biblical archeology, Jericho, Neolithic archeology, 'world's oldest city'
child psychiatry, autism, emotional illness, schizophrenia	1954 Apr p 76–82
1967 Mar p 78–86 [505]	Elamite culture, ziggurat, religion, Tower of Babel, 1000 B C, Iran
Skinner's utopia 1957 Jan p 58 conditioned behavior, effect of reinforcement on learning	1961 Jan p 68-76 Jerusalem, Palestine, city of Jebusites David, Herod
1958 Dec p 58	1965 July p 84-91
behavioral regression, child development, cognitive development, human	Mount Ararat, Urartu, Altintepe, 800 B C culture at Noah's landing-
behavf '3_47 [572]	place 1967 Mar p 38-46
Beilby laye	Arabia, irrigation, trade, Near East, frankincense, myrrh, cultures of
hypothesis 1968 June p 91-99 ferrograph analysis, friction, lubrication, machine wear, metal fatigue,	southern Arabia 1969 Dec p 36-46 [653] Dead Sea scrolls, Judaism, New Covenanters, Qumran site
particles of wear, wear 1974 May p 88–97	1971 Nov p 72–81
bell shrike, animal communication bird song bird duets	Jericho, oldest city 1956 Nov p 68
1973 Aug p 70–79 [1279]	Jericho, from cave to village 1957 Sept p 116
bellows, science history, technological innovation, windmills, pumps, blast furnace, medieval technology, medieval uses of the air	bibliography of the atom, atom, UN Atomic Energy Commission
1970 Aug p 92–100 [336]	1948 Oct p 25 bicycle technology, technology history, economic development
Bence-Jones proteins, amino-acid sequence, antibodies, antibody	1973 Mar p 81–91
molecule, immunoglobin heavy chain, light chain, antigen-antibody	stability, steering geometry 1970 May p 58
complex 1967 Oct p 81-90 [1083] antibody molecule myeloma immunoglobin, antigen binding amino-	17-pound plastic bike 1973 May p 43
acid sequence antibody amino-acid sequence determination	'big bang' theory, cosmology, universe evolution, universe, space curvature, according to Gamow 1956 Sept p. 136-154
1970 Aug p 34-42 [1185]	curvature, according to Gamow 1956 Sept p 136-154 cosmology, universe expansion cosmic background radiation, low-
Benford's Law, probability, digits number theory, first-digit distribution	energy radiowaves, isotropy, primeval fireball, helium abundance
1969 Dec p 109–120	'big bang' theory and cosmic background radiation
Bentley's compound, analgesics morphine, opium, poppy, heroin, codeine, drug action, search for strong safe analgesic	1967 June p 28–37
1966 Nov. p. 131-136 [304]	deuterium-hydrogen ratio, deuterium synthesis, cosmology, heavy hydrogen, interstellar matter 1974 May p. 108-118
benzene, carbon chemistry, chemical accelerators origins of life, high-	cosmic background radiation evolutionary universe, universe
energy carbon reactions 1975 Jap n 77-79	expansion radio galaxies 1974 Aug p. 26, 23
benzene denvatives, aromatic hydrocarbons molecular structure,	cosmology, closed universe, open universe, universe expansion
Bering land bridge, New World archeology, MacKenzie river, human	deuterium abundance age of elements average density
migration 'How man came to North America' 1951 Ian p. 11–15	1976 Mar p 62-79 cosmic background radiation ether drift, Hubble constant, anisotropy
plant migration occanography. New World archeology animal	in 3-degree Kelvin radiation 1978 May p. 64-74 (2000)
migration, continental shelf, glaciation Wisconsin glaciation, animal plant migration. Asia-North America 1962 Jan p 112–123	quasar recession velocities, primordial radiation detected
1 1902 Jan p 112-123	1965 July p 44
	cosmic background radiation 1966 May p 54

see also primordial fire ball, cosmic background radiation Big Thompson disaster, cloudburst and flash flood 1977 Apr p 60 bilinteral symmetry, left-right asymmetry, mirror images, central nervous system 1971 Mar p 96–104 [535]	adrenal cland, nineal organ, acteorant, processing p. 132–142
learning 1968 Mar n 78-86	malaria, Plasmodium, parasitism, reproduction, gametocyte, mosquitoes 1970 line n. 122-131 t1811
visual perception, dyslexia, eye movement, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545]	animal behavior, circadian rhythm, circannual rhythm, hibernation, animal migration, manie depression 1971 Apr. p. 72-79 [1719]
billion electron volt proton synchrotron, see Bevatron bin-packing, scheduling, combinatorial analysis, algorithms, critical path scheduling, mathematization of efficiency	circadian rhythm, house sparrow, photoperiodicity, pineal organ, nonvisual light receptors 1972 Mar p 22-29 [1243]
1978 Mar. p 124-132 [3001] binary arithmetic, computer technology, digital computer, analogue computer, relay computers, logic, automatic control, computer	horning behavior, bird navigation 1974 Dec p 96-107 [1311] crabs, diatoms, marine algae, sand hoppers, tidal-zone organisms, tidal rhythms, integration of biological and sidereal cycles 1975 Feb p 70-79 [1316]
memory, control systems, status of 'mathematical machines' 1949 Apr. p. 28-39	artificial light, sunlight, suntanning, vitamin D, body's response to light 1975 July p 68-77 [1325]
number theory, magic squares, prime number, composite numbers 1951 July p 52-55	circadian rhythm, diapause, dormancy, insect behavior, insect metabolism photoperiodicity 1976 Feb p 114-121 [1335]
computer technology, information theory, computer industry, computer privacy, computer applications, introduction to single- topic issue on information processing 1966 Sept. p. 64-73	fiddler crabs 1955 Oct p 46 unicorn's lunar rhythm 1957 July p 68
computer technology, integrated circuits, switching elements, logic	temporal relations, time perception, temperature time interrelation, kappa movement effect 1964 Nov. p. 116, 124
circuits, computer memory, microelectronics, hardware of computer 1966 Sept. p. 74–85	enzyme oscillations 1967 Oct p 50 see also circadian rhythm
communication technology, pulse-code modulation, digital transmission, television, transmission quality, telephone, AM, FM	biological energy, energy, power machines, mechanical energy, economic development, power, introduction to a single-topic issue on energy
1968 Mar. p. 102–108 computer technology, maximum computer speed 1968 Oct. p. 93–100	and power 1971 Sept p 36-49 [661] biological form, regeneration, cell differentiation, cellular polarity,
Boolean logic, integrated circuits, large-scale integrated circuits, logic elements, microelectronics 1977 Sept. p. 82–106 [376]	embryonic development, Hydra, morphogenesis, morphogens 1974 Dec p 44-54 [1309]
binary code, Bacon's cipher, Boolean algebra, computer history, science history, Jacquard loom, punched cards 1972 Aug p 76-83	biological nitrogen fixation, nitrogen, ammonia, nitrifiers denitrifiers nitrogen cycle, legumes 1953 Mar p 38-42
binary numbers, chimpanzee, symbolic language, learning, operant conditioning, animal behavior, chimpanzee learning arithmatic	ammonia manufacture, Haber process, metallo-organic process, nitrogen fixation 1974 Oct p 64-70 biological oxygen demand, water pollution, sewage treatment, radioactive
1964 May p 98~106 [484] names for 'thinking binary' 1958 Nov p 62	waste disposal, stream pollution 1952 Mar p 17-21 biological pest control, bacteriology, agricultural pest, insecticide, insect
binary search trees, algorithms, computer language, computer programming, hash table 1977 Apr p 63-80	physiology, virology, entomology, living insecticides 1956 Aug p 96-104
binary stars, solar system, stellar evolution 1949 Oct p 42-45 dust cloud hypothesis, photophoresis, gravitational collapse, element	screw worm fly, X-ray, sterilization, pest control, cattle, eradication of the screw worm fly
abundance, angular momentum, origin of the Earth 1952 Oct p 53-61 [833]	gypsy moth, pheromones, olfactory receptors, sex attractants, silk moth, chemotaxis communication 1974 July p 28-35 [1299]
dwarf stars, degenerate gas, gravitational collapse, white dwarfs, 'dying' stars 1959 Jan p 46-53	biological sciences, mathematics, self-reproducing machine, nerve impulse, predation, Turing machine, automata theory, mathematics
extraterrestrial life, stellar evolution, main-sequence stars, probability of extra terrestrial life calculated from astronomical numbers 1960 Apr p 55-63	in biology 1964 Sept p 148-164 international program 1967 May p 55
stellar evolution, tidal effects, gravitation effects, contact binaries,	biological warfare, US military enterprise 1949 Apr p 26 bacterial toxin 1970 Apr p 44
neutron stars, black hole, pulsar, quasars, X-ray astronomy, X-ray	'biological' water, 'anomalous' water, blood, hemoglobin, water, membrane permeability, osmosis, erythrocyte van 't Hoff law
black hole, Cygnus X-1, black hole search dense stars, supernovae, X-ray binary stars 1975 Mar p 24-35	1971 Feb p 88-96 [1213] biological wax, copeped lipids, coral reef wax, marine wax, metabolic
black hole, galactic energetics, globular cluster stars, neutron stars, stellar evolution, X-ray stars, astronomy satellites, 'bursters'	fuel, food chain 1975 Mar p 76-86 [1318] biological weapons, bacteria, chemical weapons, Vietnam war, arms race,
1977 Oct p 42-33 (363) 1952 Aug p 36	CS gas, virus disease, rickettsiae, tear gas, herbicide, chemical- biological warfare 1970 May p 15-25 [1176]
Bingham plan, medical care, community hospital, medical center, general	biology, evolution, philosophy of science, natural selection, creativity, innovation in biology 1958 Sept p 100~113 [48] biology research ship, Amazon expedition 1967 Mar p 50
medical technology	bioluminescence, glow worm, firefly, abyssal fish, luciferase, 'cold light' 1948 May p 46-49
conditioning, developmental psychology, into hadon processing space, size, shape perception in human infants	abyssal life, ocean abyss, marine biology, fauna at 4000 meters 1957 Nov p 50-57 photosynthesis, chlorophyll, carotene, retinene, vision, photobiology,
depth perception, eye, neurophysiology, optic chiasm, stereopsis, visual 1972 Aug p 84-95 [1255] cortex random dot stereograms, stereogram experiments, vision, visual 1976 Mar p 80-86 [569]	phototropism, sunlight, life and light 1959 Oct p 92-108 electric fishes, sodium ion potential, electroplaques, neurophysiology, synapse, acetylcholine, animal behavior, nerve impulse
biochemistry, enzymes, virus, citric-acid cycle, metabolism, co-enzymes,	membrane potential, plant cell, calcium pump, ion potential, electricity
sulfa drugs, antibiotics, science, of state 1950 Sept p 62-68 hipelectricity, animal behavior, physiological psychology, electrically	firefly, insect behavior, insect physiology, luciferin, luciferase, chemotaxis, biochemistry of bioluminescence
controlled behavior biofeedback, see autonomic nervous sytem biological clock, sleep, body temperature, waking 1952 Nov p 34-38 [431]	electric fishes, electric field, animal navigation 1963 Mar p 50-59 ATP, muscle contraction, calcium barnacle, aequorin, calcium ions in
fiddler crab, circadian rhythm	muscle construction 1970 Apr p 84-93 [1175]

fiddler crab, circadian rhythm

fish, fish-scale crystals, tapetum lucidum, optics under water,	bird navigation, spatial orientation, animal navigation, celestial
camouflage 19/1 Jan p 64-72 [1209]	navigation by birds 1958 Aug p 42-47 [133] bird navigation, blackpoll warbler, celestial navigation, indigo bunting,
animal communication, behavioral adaptation, firefly, insect behavior,	planetarium experiments 1975 Aug p 102–111 [1327]
synchronous flashing of fireflies 1976 May p 74-85	bird navigation, bird migration, homing behavior 1948 Dec p 18–25
bacteria, fish, flashlight fishes, symbiosis 1977 Mar p 106-114 biomass, ecology, energy cycle, solar energy, food chain, element	guacharos, sonar, 'oil birds' 1954 Mar p 78–83
abundance, autotrophs, heterotrophs, the ecosphere	spatial orientation, animal navigation, bird migration, celestial
1958 Apr p 83–92	navigation by birds 1958 Aug p 42-47 [133]
carbon dioxide 'window', atmosphere, climate, ocean sediments,	homing behavior, biological clock 1974 Dec p 96–107 [1311]
humus, 'greenhouse effect', threat of 'greenhouse effect'	bird migration, blackpoll warbler, celestial navigation, indigo bunting,
1978 Jan p 34–43 [1376]	planetarium experiments 1975 Aug p 102–111 [1327]
biorhythm, see circannual rhythm, circadian rhythm, biological clock	bird nervous system, animal behavior, learning, cerebral cortex, striatum, crows, pigeons, canaries, chickens 1968 June p 64–76 [515]
biosphere, Earth, evolution, photosynthesis, environment, atmosphere-	crows, pigeons, canaries, chickens 1968 June p 64–76 [515] bird song, animal communication, learning, innate behavior, animal
hydrosphere cycles, introduction to single-topic issue on biosphere 1970 Sept p 44-53 [1188]	behavior 1956 Oct p 128–138 [145]
wind, solar radiation, energy cycle, albedo, atmospheric circulation,	communication, songbirds, syrinx, mechanism of sound production
climate, ocean circulation, terrestrial radiation, carbon dioxide	1969 Nov p 126-139 [1162]
'window'. Farth energy cycle 1970 Sept p 54-63 [1189]	animal communication, bell shrike, bird duets
solar radiation, photosynthesis, agricultural ecosystem, climax	1973 Aug p 70–79 [1279]
ecosystem, energy cycle, ecosystem, food chain, respiration,	correlated with behavior 1955 Sept p 80 birds, geographical distribution, speciation, ornithology, behavioral
biosphere energy cycle 1970 Sept p 64–74 [1190]	adaptation, bird migration, adaptation, provinciality of birds
water cycle, transpiration, evaporation, runoff, agricultural system, ocean, precipitation, photosynthesis 1970 Sept p 98-108 [1191]	1957 July p 118–128
chloroplast, oxygen cycle, photosynthesis, aerobic metabolism, ozone,	camouflage, caterpillars, mimicry, behavioral adaptation, defense by
oxidation-reduction reactions, geological record, oxygen-carbon	color 1957 Oct p 48–54
balance 1970 Sept p 110-123 [1192]	finches, mimicry, parasitism, sexual behavior, widow birds, animal
calcium carbonate, carbon cycle, sedimentary rock, photosynthesis,	behavior 1974 Oct p 92–98
fossil fuel combustion, atmosphere, carbon dioxide	dinosaurs, ectothermy, endothermy, metabolism, birds descended from
1970 Sept p 125-132 [1193] bacteria, nitrogen cycle, nitrogen fixation, blue-green algae, Haber	dinosaurs 1975 Apr p 58-78 [916] Birmingham, high-energy physics, Manchester, report on visit by Leopold
process, nitrate, legumes, eutrophication	Infeld 1949 Nov p 40–43
1970 Sept p 136–146 [1194]	birth control, male fertility, spermatozoon count, ovulation timing
ATP, mineral cycles, phosphorus cycle, sulfur cycle, sulfur bacteria,	1950 May p 16-19
carboxylation cycle, eutrophication, mineral cycles in the biosphere	contraception, reproduction, ovulation, nidation, fertilization
1970 Sept p 148–158 [1195]	1954 Apr p 31–34
human population, food production, fertilizers, pollution, irrigation, agricultural revolution, soil erosion, biosphere capacity to produce	population growth, Malthusian doctrine, developing countries, food production, Julian Huxley on world population growth
food 1970 Sept p 160–170 [1196]	1956 Mar p 64–76 [616]
energy demand, thermal pollution, Industrial Revolution, energy	birth rate, family planning, family size, contraception, US population
technology, fossil fuel cycle, carbon dioxide, industrial emissions,	trends, acceptance of contraception 1959 Apr p 50-55
modification of natural cycles by man 1970 Sept p 174-190 [1197]	family planning, population growth, economic development,
recycling, material resources, nonrenewable resources, inorganic-	promotion of birth control in Taiwan 1964 May p 29–37 [621]
materials cycle 1970 Sept p 194–208 [1198] energy cycle, photosynthesis, respiration, power, radiation energy, solar	abortion, infant mortality, maternal mortality, public opinion, legal status, incidence in U S and other countries
radiation, terrestrial radiation 1971 Sept p 88–100 [664]	1969 Jan p 21–27 [1129]
continental drift, marine biology, ocean evolution, Pangaea, plate	human population, India, infant mortality, family planning, medical
tectonics 1974 Apr p 80–89 [912]	care, experience in an Indian village 1970 July p 106-114 [1184]
MIT study of critical environmental problems 1970 Sept p 78	celibacy, disease, foundling institutions, infanticide, Malthusian
biotin, B vitamin, ATP, function of little known B vitamin 1961 June p 139–146	doctrine, marnage age, population growth, population control in Europe 1750-1850 1972 Feb p 92-99 [674]
bipedal walking, human evolution, lumbar vertebrae, pelvis, lower-back	Europe 1750-1850 1972 Feb p 92-99 [674] abortion, contraception, family planning, population control, public
pain, 'scars of human evolution' 1951 Dec p 54-57 [632]	policy in U S 1973 July p 17–23
locomotion, walking, primates, human evolution, muscle, bone, fossil	reproductive physiology, sex hormones, human population
record, origin of human walking 1967 Apr p 56-66 [1070] birch, forestry, spruce, climax ecosystem, balsam, climax forest of	1974 Sept p 52–62
Northeast U S 1948 Nov p 20–23	developed countries, demographic transition, human population, zero population growth 1974 Sept p 108-120
bird bones, avian respiratory system, breathing, lung structure	abortion, population, public health, infant mortality, maternal
1971 Dec p 72-79 [1238]	mortality, international comparison of experience with legalization
bird flight, aerodynamics, airfoil, soaring, thermal cells	of abortion 1977 Jan p 21-27 [1348]
1952 Apr p 24-29 aerodynamics, weight-strength ratio, bone structure, respiratory air	intrauterine device 1964 Jan p 54 family planning, US public health 1965 July p 46
sacs, birds as flying machines 1955 Mar p 88–96	family planning, U S public health 1965 July p 46 Japan population growth 1971 July p 43
soaring, wind velocity, thermal cells, air currents, aerodynamics,	population growth assessed 1971 Oct p 40
ormthology, flight of soaring birds 1962 Apr p 130–140	family planning in the People's Republic 1972 Nov p 50
metabolism, energy output, wind tunnel experiments, gull, budgengar	in U S S R. 1973 Jan p 46
1969 May p 70-78 [1141] albatross, evolution, animal behavior, sexual behavior, soaring, natural	birthrate decline in U S 1973 Feb p 46
history 1970 Nov p. 84_93 (1204)	demographic transition, in China 1973 Nov p 49 ethics 1974 Sept. p. 64
gliding birds, soaring vultures, thermal cells, lift phenomena	industrial societies approach zero population growth 1978 May p. 81
1973 Dec p 102–109	see also family planning contraception
aerodynamics, animal behavior, insect flight, clap-fling mechanism, flip mechanism, hovering flight, lift generation	birth rate, birth control, family planning, family size, contraception, 11.5
1975 No. p. 20 27 (1221)	population trends, acceptance of contraception 1959 Apr p 50_55
10r 1948 Dec p 18–25	abortion, population, marriage rate, death rate, vital statistics, menarche, infant mortality, 1538-1812, parish registers York,
b ornithology behavioral	England 1970 Jan p 105-112
adaptation, adaptation, provinciality of birds 1957 July p 118-128	1210 Juli p 103-112

demographic transition, population growth, world population prowth, grass reproduction rate, net reprodu	ition, jero uction tale.	reience history, technological innovation, win modies al technology, modies al lives of the c	dmills pumps bellows
extraporation from world statistics population model		•	nt 1970 Auz p 92-100[336]
death rate, demographic transition, hum in population, pe	b 12 33 lead	blast waves, atomic bomb, property damage	1953 Apr p 94-102
growth history 1974 c	Some in 20 51	blastocyst, mito is 0,0m fertilization, embryon	ic development massa
mortality fates, population explosion, developing countrie	es hum in	human embrso in the laboratory blastilla, cell differentiation, embryonic desclope	1970 Dec p 44-54 [12]
population 1974 Ser	pt p 145 159	fertilization ectiviterm, mesoderm endoderi	m, embryological
n trafist policy in USSR 16 US population 19	752 Oct p 41	'org mizer', science history, review of classic	al embryology
4) 4.	65 June p 56 165 Apr p 49	Wigh Bounts beautions were an accounted	1957 Nov p 79-88[107]
U.S., zero popul thon growth 19	71 Apr p 50	Bligh, Bounty, bre idfruit, mutiny on a scientific	1953 Mar p 88-94
contraception, U.S portion to the birth trauma, brain damage, cerebral palss, asphysia, monke	972 Okt ji 46 . N	blight, antibiotics, plant disease, rot, smut, wilt di	
experiments, implications for hum in infants		blind landing, aircraft landing, automatic pilot, ai	
blean Pales Indian funting Object 1 to 1969 Oct p	76 54 [1158]	landing system precision approach radar, gr	ound-controlled
bison, Paleo-Indians, hunting, Olsen-Chubbuck site, New Wearcheology, reconstruction of bison hunt, kill, butcherin	oria .e	approach blindness, premature infants, retrolental fibroplas	1964 Mar p 25-3)
1967	Jan p 41-52	oxygen infant mortality, 'blind babies'	1955 Dec p 45-43
bites by humans, no fatalities 19	51 Jan p 30	vision, glaucoma, indectoms, human eye	1959 Aug p 110-117
Bitter solenoid, magnetic field, magnetism, superconductors National Magnet Laboratory 1965 A		neonat il disorder, medical ethics, premature in	
	Npr. p. 66-78 pr. p. 96-105	researches, retrolental fibroplasia, 'blind babi 1977	June p 100-107 [1361]
BL Lacertae objects, galaxies, quasars, radio astronomy	•	type made tactile for 'reading'	1974 Jan p 🦭
1977 Aug p	32-39 [372]	phospheres, 'sight' for blind	1974 Mar p 45
black both, quantum mechanics, Planck, science history, spec- resonators, Einstein, photoelectric effect. Compton effect	troscopy,	block fault, geology, tectonic processes, mathematic	1961 Feb p 96-106
jumps 1952 Mar p		geosynchine, experimental geology 'block portraits', visual perception, information the	eors, computer
black body radiation, heat, thermodynamics, quantum mechan	nics,	graphics, computer enhancement, pattern reco	Constitut recognition of
entropy, equation of state, energy, temperature, What is to see		Litres	(7/3 (10) 8
Black Death, epidemiology, human behavior, bubonic plague,	ept p 58–63 . public	blood, comparative physiology, ice fish, oxygen, he fish without red cells or hemoglobin	1803 MON D 100
health, population lustory, long-term effects of plague, F		'anomalous' water, 'biological' water, hemoglobi	n, water, membrane
50 1964 Feb p 11		managabiliti memaga am theomata 100 't HOII	[law 1 Feb p 88-96 [1213]
bacterial toxin, plague bacillus, respiration, electron transpo mechanism of death by plague toxin 1969 Ma	ort. ir. p. 92–100	see also frozen blood cells	
black hole, gravity, stellar evolution, space-time continuum, gr		blood banks, blood plasma, blood fractionation, ery	throcyte, leukocyte,
collapse, thermal pressure, singularity, gravitational radiu		platelets centrifuge, blood transfusion	1954 Feb p 5. 02
gravitational waves, neutron stars, pulsar, relativity theory, l		blood-brain barrier, epilepsy, brain metabolism, neu neurophysiology, physiology of the barrier and	its reinforcement 1956 Feb p 101-106
binary stars, neutron stars, pulsar, quasars, X-ray astronomy	ay p 38–46 y, X-ray ily p 26–37	blood cell analysis, automatic cell sorting computer lymphocytes, pattern recognition, automatic an	analysis.
sources 1972 Ju gravitational energy, pulsar, quasars, rotational energy, radio			1970 NOV P 12 02
universe 1973 Feb	р 98-105	blood circulation, Harvey, science history, life and w	ork of William 1952 June p 56-62
binary stars, Cygnus X-1, black hole search 1974 De interstellar gas, magnetohydrodynamics, neutron stars, pulsa	ec p 32–43 ar. stellar	Harvey capillary bed, mesentery, arteriole, venule, cardiov	accular system
evolution, supernovae, X-ray sources 1975 De	ec p 38-46		1959 Jan p 34-00
cosmic radiation, gamma-ray astronomy, neutron stars, pulsa	p 66-79A	exercise adaptation, breathing, heart, hemoglobin, 1965	May p 88-90 [1011]
gravitational fields, quantum mechanics, relativity theory, ev		blood clotting, Dicumarol, anticoagulant therapy, thr	ombus 1951 Mar p 18-21
horizon 1977 Jan p 3 binary stars, galactic energetics, globular cluster stars, neutro	n stars,	platelets, hemagglutination, hemostasis, role of pla	telets in clotting
stellar evolution, X-ray stars, astronomy satellites, burster	'S'	mechanism hemagglutination, fibrinogen, molecular biology, th	1961 Feb p 38-04
1977 Oct p 4	Oct p 54	of thrombin in converting fibrinogen into fibrin	1962 Mar p 60-66
ellipticai gaiaxies 'collapsar' Englon Aurigae	Mar p 46	blood disorders, anemia, brain damage, environmenta	l toxins, kidney
candidate in Cygnus	Nov p 48 ug p 44B	disorder, lead poisoning, nerve disorders 1971 I blood donors, Red Cross campaign	Feb p 15-23 [121] 1948 Sept p 28
variable X-ray sources	Apr p 84	blood fractionation, poliomyelitis, gammaglobulin, enu	demiology.
black-jack, now to ocat the odds	itity,	immunity, vaccine blood plasma, erythrocyte, leukocyte, platelets, centi	1953 July p 25–29
black power, American Negro, ficial assurery, social deprivation economic power, ethnic groups, slavery, social deprivation 1967 Apr p 21		transfusion, blood banks	1954 Feb p 54-62
The Moditorranean Sea sea level, geological l	history of	more fractions on market	1949 Sept p 32
	2–63 [932]	more by-products portable fractionator	1950 Sept p 51 1951 Sept p 54
Blackett hypothesis, geomagnetism, permanent magnetism,		blood groups, immune response, Rh factor, Rh incompa	tibility,
electromagnetism, Elsassor Bartar 2 7 pt 1950 June	p 20-24	prevention of 'Rhesus' babies 1968 No genetic drift, mutation, consanguinity, gene pool, evo.	ov p 46–52 [1126]
ti markles hard migration, bliu havigation,	gation,	genetics Parma Valley, Italy	969 Aug n 30-37
indigo bunting, planetarium experiments 1975 Aug p 102-1	[]] [1327] 0	olood pigments, hemoglobin, hemocyanin, chlorocruorin	950 Mar n 20-22
		the advances and blood fractionation, erythrocyte, leukocyte	e, platelets,
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diffraction, gaustotics, difficulty	ine D 40	molecule 1974 Ma	ур 78-86 [1295]
comparative incidence in time and place blast furnace, steel production, iron ore, smelting, furnace smelting pressure 1948 May	p 54-57		
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olood pressure, learning, autonomic nervous system, heart rate, curare, electrocardiography, learning voluntary control of autonomic	Bok globules, galaxy structure, interstellar matter, Milky Way, stellar formation, supernovae, galactic dust clouds, nebulae, Gum Nebula 1972 Aug. p 48-61
nervous system 1970 Jan p 30-39 [525] human physiology, autonomic nervous system, transcendental	gravitational instability, interstellar clouds, interstellar dust, stellar
meditation, yoga, Zen Buddhism, physiology of meditation 1972 Feb p 84-90 [1242]	formation, local galaxy 1977 June p 66-81 [366] bomb craters, cratering, ecological warfare, defoliation, laterization,
comparative physiology, extravascular pressure, breathing, giraffe	Vietnam war 1972 May p 20-29 [1248] bombers, arms race, SALT, AWACS, strategic weapons military
respiration 1974 Nov p 90-105 [1507] science history, plant physiology, sap flow, Stephen Hales's work 1976 May p 98-107	expenditures, antiaircraft sytems 1973 Aug p 11-19 arms control, SALT, cruise missiles, strategic weapons Carter
blood proteins, bacterial infection, gammaglobulin, antibodies,	administration 'comprehensive proposal' for US-USSR, force
immunology, tissue grafts, agammaglobulinemia, hereditary immunological deficiency 1957 July p 93-104	bone, calcium, muscle fiber, mitotic spindle, calcium and life
blood transfusion, shock, traumatic shock, capillary bed, electrolyte - balance, cardiovascular system 1952 Dec p 62-68	1951 June p 60-63 calcium, cartilage, feedback, hydroxyapatite crystal, osteoclasts
blood plasma, blood fractionation, erythrocyte, leukocyte, platelets,	1955 Feb p 84-91 amino acids, fossil mollusk shells, paleontology, paleobiochemistry
centrifuge, blood banks 1954 Feb p 54-62 self-donated blood 1972 Jan p 47	1956 July p 83-92 [101]
see also cross transfusion	piezoelectricity, osteogenesis, collagen, calcium metabolism, bone
blood typing, Rh factor, human evolution, Rh negative gene, Ro gene,	adaptation to mechanical stress 1965 Oct p 18–25 [1021]
race 1951 Nov p 22–25	locomotion, walking primates, human evolution, bipedal walking muscle, fossil record origin of human walking
Dunkers, geneue drift, endogamous group, ear lobes 'hitch-hiker's'	1967 Apr p 56-66 [1070]
thumb 1953 Aug p 76–81 [1062]	hunting societies, Neolithic archeology, Neolithic village, Suberde site
parentage, forensic medicine 1954 July p 78–82	in Turkey 1968 Nov p 96–106
American Negro, skin color, recessive gene, marriage preferences	evolution horn, antler, osteogenesis, keratin, ungulates, differences
population genetics, genetic meaning of race 1954 Oct. p 80-85 Judaism, racial discrimination, religious persecution, social evolution,	between horns and antlers 1969 Apr p 114–122 [1139]
genetic drift, population genetics, Jewish community of Rome	calcium metabolism, eggshell, chicken, calcite, mobilization of calcium
1957 Mar p 118–128	from bone 1970 Mar p 88–95 [1171]
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blood-vessel bank, in New York City 1951 May p 36	physiology, hormone, recognition and characterization of calcitonin
blowfly, taste receptors, chemoreceptor 1961 May p 135-144	1970 Oct p 42–50
blue-green algae, Antarctica, fauna, flora, lichens, ecology, Antarctica	bone age', adolescence, child development, medical care, growth
terrestrial life 1962 Sept p 212–230 [865]	hormone, menarche, heredity vs environment 1973 Sept. p 34-43
bacteria, symbiosis, algal bloom, simplest plants, resemblance to bacteria 1966 June p 74-81	bone cancer, chelation, hemochromatosis lead poisoning, pharmacology, drug action, Wilson's disease metal poisoning, heavy metal
bacteria 1966 June p 74-81 bacteria, nitrogen cycle. nitrogen fixation, Haber process, biosphere.	poisoning, salicylates, aspirin cancer therapy, chemotherapy,
nitrate, legumes, eutrophication 1970 Sept p 136–146 [1194]	medical exploitation of chelates 1966 May p 40-50
bacteria, fossil cells, evolution, Gunflint cherts, origins of life	bone graft, preventing graft rejection 1956 Aug p 54
Precambrian rocks prokaryotic cells oldest fossils	bone marrow, mouse-rat hybrid 1957 Oct. p 60
1971 May p 30–42 [395]	bone marrow transplantation, kidney transplant, immune response,
blue-green bacteria, algae, algal bloom, cyanobacteria, gas vacuoles	radiotherapy, circumventing immune response 1959 Oct p 57-63
1977 Aug. p 90–97 [1367] 'blue haze', air pollution, smog. atmospheric inversion, particulates,	'bone-seekers', poisons, ionizing radiation, radioautography, chelate, scintillation counter 1955 Aug p 34-39
ozone, perovides, photochemistry 1955 May p 62–72	bone structure, bird flight, aerodynamics, weight-strength ratio,
blue jay, predation, plant toxins, food chain, milkweed predator-prey	respiratory air sacs, birds as flying machines 1955 Mar p 88-96
relationship, mimicry, ecology, chemical defense against predation	bookkeeping, accounting, systems design, computer technology,
1969 Feb p 22-29 [1133]	computer decision making, uses of computers in organizations
blue whale, sonar, krill, food chain, whaling natural history of the largest animal 1956 Dec p 46-50	1966 Sept p 192–202 Boolean algebra, symbolic logic, switching circuits, paradox
Antarctica, oceanography, marine biology, food chain, krill, ecology,	1950 Dec p 22-24
Antarctic convergence, biological province of Antarctic convergence 1962 Sept p 186–210	logic machine, Stanhope demonstrator, symbolic logic, syllogisms 1952 Mar p 68–73
Antarctic convergence, whaling industry, endangered species,	Bacon's cipher, binary code, computer history, science history,
International Whaling Commission 1966 Aug p 13–21	Jacquard loom, punched cards 1972 Aug p 76–83
body fluids, homeostasis, wound shock, shock, emergency medicine, treatment of shock 1958 Dec p 115-124	Boolean logic, binary arithmetic, integrated circuits, large-scale integrated
treatment of shock 1958 Dec p 115–124 body-organ reversal, ciliary immobility 1976 Sept p 68	circuits, logic elements, microelectronics 1977 Sept p 82–106 [376] boomerang, aerodynamics, airfoil, computer graphics, actual and
body temperature, hibernation metabolic rate, thermoregulation animal	theoretical boomerang orbits 1968 Nov. p 124–136
behavior 1950 Dec p 18-21	borane fuels, boron, metalloid element, crystal structure, properties and
sleep biological clock, waking 1952 Nov p 34-38 [431]	applications of boron compounds 1964 Jan p 88-97
hummingbird metabolism, thermoregulation hibernation surface to-	borazon, artificial diamonds lithosphere, ultra-high pressure, coesite,
volume ratio 1953 Jan p 69–72	properties of matter under 2 × 10 ⁵ p s 1 1959 Nov p 61-67
shrews metabolism thermoregulation, surface-to-volume ratio	production process 1957 Apr p 69
hbernation hypothermia, surgery, shock, metabolism, artificial	Bordes method, stone tools, tool assemblages, multivariate analysis,
lowering of body temperature for surgery and shock	factor analysis, computer analysis, Paleolithic archeology, stone tools as fossils of behavior 1969 Apr. p. 70-84 16431
1958 Mar p 104-114	as fossils of behavior 1969 Apr p 70-84 [643] boredom, electroencephalography, perceptual isolation, hallucination,
body temperature regulation, see thermoregulation	neuropsychology, sensory deprivation, effect of exposure to
body water, water balance, homeostasis, distribution between	monotonous environment 1957 Ian m 52_56 (420)
intracellular and extracellular 'compartments'	boron, metalloid element, crystal structure, borane fuels, properties and
boiling, liquids heat transfer, nuclear boiling, transition boiling film	applications of boron compounds 1964 Jan p 88–97 crystal structure, crystallography, X-ray diffraction
boiling 1954 June p 64-68 boiling-water reactor, fission reactor, nuclear power, breeder reactor,	1966 July p. 96, 107
homogeneous reactor, sodium-cooled reactor, fast neutron reactor	boscovicit, atomic theory, Greek science, Renaissance science, science
1954 Dec. p 33-39	history, Lucretius forces between atoms 1970 May p 116-122
200 P 200 P	

boson, high-energy physics, mesons, v-particles, fermion, the multi-	plicity brain damage, birth trauma, cerebral palsy, asphyxia, monkey
of particles 1952 Jan p	22-27 experiments, implications for human infants
cosmic rays, intermediate boson 1971 Oc	1 p 42
high-energy physics, fermion, guage theory 1977 Mai	D DI SDCCCH Writing hruin homicohoras carebral acatal s
botanical collections, food plants, herbarium resources, pharmacole	Pgy organization of the brain 1970 Mar n 66-78 (526)
1977 May p 96–104	[1359] anemia, environmental toxins, blood disorders, kidney disorder, lead
botany, taxonomy, set theory, computer applications, zoology, nun	terical poisoning nerve disorders 1971 Feb p 15–23 [1211]
taxonomy, computer classification of living things	aphasia, Broca's area, language, speech disorders
1966 Dec p 106-116	[1059] 1972 Apr p. 76–83 [1246]
botulism, bacterial toxin, tetanus, paralysis, nerve impulse, inhibito	Drain death, irreversible come as definition of death 1068 Sont n. 95.
impulse, synapse, motor neuron, Clostridium tetani, Clostridiu	
botulinum 1968 Apr p	i mining, memory, rus,
boundary layer, airfoil, laminar flow, turbulence, aerodynamics	sensory deprivation 1972 Feb p 22–29 [541]
1954 Aug p	The state of the s
ailerons, aircraft design, aerodynamies, smoke tunnel, airfoil, low speed flight 1956 Apr. p.	
speed flight 1956 Apr p boundary-phase hypothesis, superdense water, water II, polymerizat	
polywater, thermal conductivity, surface tension, evidence for	
Il argued 1970 Nov p	
Bounty, Bligh, breadfruit, mutiny on a scientific expedition	52-71 supplies 45 percent of postdoctorals in U S 1970 Jan p 52 brain endocrinology, brain function, drug action, drug addiction,
1953 Mar p	
Bourbaki, mathematics, philosophy of science, axiomatics, science	1977 Mar p 44–56
history, labors of the mathematical collective self-styled Bourba	
1957 May p	
bowerbirds, sexual behavior, courtship display, animal behavior, are	
behavior, Australian bowerbird, natural history 1956 June p	
arena behavior, sexual behavior, animal behavior, courtship displ	
releaser stimulus, ethology, natural history	monkey brain, holographic model, neurophysiology of remembering
1963 Aug p 38–46	[1098] 1969 Jan p 73–86 [520]
boxing, the bottom rung 1952 May	
bad for health 1952 Oct	p 46 tryptophan, feedback 1974 Feb p 84-91 [1291]
Boyle's law, chemical experimentation, pneumatics, science history,	drug action, drug addiction, endodorphins, enkephalins, internal
philosophy 1967 Aug p 9	
bradykinin, kınıns, peptides, kallıdın, venom, ınflammation, globulır	cyclic AMP, dopamine, endocrine system, messenger molecules, nervous system, neurotransmitters, L-DOPA treatment, Parkinson's
local hormones, production and distribution	
1962 Aug p 111–118 Bragg's law, X-ray crystallography, atomic structure, crystal structur	100 110 (110 (110 (110 (110 (110 (110 (
ray diffraction, Fourier analysis 1968 July p 58-70	7,1
brain, cerebral cortex, cerebrum, cerebellum, brain surgery,	split-brain experiments, monkey, cat, human post-operative subject
electroencephalography, 'the great raveled knot', localization of	1964 Jan p 42–52 [174]
brain function 1948 Oct p 26-39	[13] cerebral dominance, perception, spirt-brain experiments, corpus
memory, learning, cerebral cortex, fundamental research, What is	callosum, intelligence, language, localization of brain function
memory? 1953 Sept p 118–126	[11] 1967 Aug p 24-29 [508] brain damage, speech, writing, cerebral cortex, functional organization
learning, neurophysiology, neuropsychology, pleasure centers,	
hypothalamus, electrode stimulation of pleasure centers in rat bi	ani ottoo
1956 Oct p 105–116	· L=
central nervous system, medulla, reticular formation, perception, mereflex, neurophysiology, attention and orienting mechanism in both	1973 Mar p 70–78 [554]
1957 May p 54-60	
acroballum central nervous system cerebrum, neurophysiology,	handedness, hearing, musions, perception, two-tone musion
cerebral-cerebellar coordination 1958 Aug p 84-90	[38] 1975 Oct p 92–104 [566]
alkal calla learning theory memory neurones, RNA, molecular the	brain metabolism, blood-brain barrier, epilepsy, neurology, neurophysiology, physiology of the barrier and its reinforcement
of memory 1961 Dec p 02-70 [134] Hedrophysiology, physiology of the barrier and its removement.
auditory beats, hearing, neurology, sound vibrations, auditory	1 146-b 1 11 1
19/3 UCL D 34-102 [1	1967 June p 115–122 [1077]
brain circuitry, cerebellar cortex, neuronal networks, Purkinje cells, mossy fibers 1975 Jan p 56-71 [1.	
mossy meets	. AQ monkey experiments 17/3 3413 p 30-103 [12/7]
memory sites 1973 July p	51 memory, hippocampai system, rats, spatial memory
to the state of the control of the c	1977 June p 82-98 67 brain size, brain evolution, cephalization index, endocranial casts,
microscopy nerve signals, nerve structure, offactory system, standard	broin stimulation, animal behavior, neurotransmitters, hormone, drive
techniques, Golgi stain, Nissl stain 1971 July p 48–60 [12]	on activation by injection of chemicals into rat brain
techniques, Golgi stain, Nissi stain mammalian brain, nerve signals, sensory systems, stimulus localizati mammalian brain, nerve signals, sensory systems, stimulus localizati	
visual perception, superior comeditas in integration per 72–82 [5	brain surgery, brain, cerebrat cortex, cerebrating, cerebrating,
cells neuronal specificity, visual cort	ex, electroencephalography, the great laveled knot, localization of
embryonic development, nerve cens, neuronal property property property in the	65) brain function 1948 Oct p 26–39 [13]
	• electroencephalography, alpha thythms, medical diagnosis
Xenopus laevis	brain waves, electroencephalography, alpha my tamb medical diagnosis,
brain, cerebellar cortex, neuronal networks, Purkinje cells, mossy fib	brain waves, electroencephalography, applications included diagnosis, Fourier analysis, toposcope display, automata theory
brain, cerebellar cortex, neuronal networks, Purkinje cells, mossy fib	brain waves, electroencephalography, apin Hydran inches diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54-63
brain, cerebellar cortex, neuronal networks, Purkinje cells, mossy fib 1975 Jan p 56–71 [13] adrenal hormones, gonadal hormones, hormone sensitive neurons, se hormones, sexual behavior, sex differences, steroid hormones, active	brain waves, electroencephalography, the provided the street of the stre
brain, cerebellar cortex, neuronal networks, Purkinje cells, mossy fib 1975 Jan p 56–71 [13] adrenal hormones, gonadal hormones, hormone sensitive neurons, se hormones, sexual behavior, sex differences, steroid hormones, active	brain waves, electroencephalography, the provided the street of the stre
kenopus facvis brain, cerebellar cortex, neuronal networks, Purkinje cells, mossy fib 1975 Jan p 56-71 [13 adrenal hormones, gonadal hormones, hormone sensitive neurons, se hormones, sexual behavior, sex differences, steroid hormones, active 1975 Jan p 56-71 [13 2075] June 1975 [13 207	brain waves, electroencephalography, the provided the street of the stre

			1967 Nov p 59
dreams, sleep research, electroencephalography	r, reticular formation,	reactor safety	1968 June p 44
paradoxical sleep, REM sleep, cat brain, the	states of sleep	uranium-thorium cycle British and French success	1976 May p 50
	1967 Feb p 62-72 [504] 1949 Dec p 29	program in U S	1977 Mar p 58
kappa for thinking	1965 Jan p 52	nuclear energy and weapons proliferation	1978 May p 81
brain weight, effect of experience Brauron, Classical archeology, Greek civilization,		breeding cycle, avian reproduction, ring dove, se	exual behavior, hormone,
Brauron, Classical archeology, Oreck civinzation	1963 June p 110–120	fertilization	1964 Nov p 48–54 [488]
Brazil, economic development, industrialization,		brewing, beer, enzymes, yeast, fermentation, hop	os, chemistry and
subsistence economy, tropical rain forest, ur	banization, resource	microbiology of brewing	1959 June p 90–100
management, uneven national development	1963 Sept p 208–220	baking, yeast, riboflavin synthesis, cryptococc	al meningitis,
bread, kneading and baking by continuous proce	ss 1966 Aug. p 44	fermentation, cell physiology, yeasts, useful	
smell of bread	1968 June p 46	bride price, commerce, money, cultural anthropo	1960 Feb p 136–144
breadfruit, Bounty, Bligh, mutiny on a scientific	expedition	Southwest Pacific-Solomon Islands culture	1962 Mar p 94–104
the second secon	1953 Mar p 88–94	marriage contracts, anthropology, Sebei tribe	1973 July p 74-85
breakers, tsunamis, seiches, ocean waves, surf, ge propagation of ocean waves	1959 Aug. p 74–84 [828]	bridges, suspension bridges, aerodynamics, harr	nonic oscillation
breath-holding, record	1956 Oct p 74		1954 Nov p 60-71
carotid bodies	1974 June p 51	bright-light exposure, electroretinography, vitan	
breathing, whale, diving physiology	1949 July p 52–55	blindness, opsin, rhodopsin, retinitis pigme	
lung, human physiology, alveoli, mechanism o	f breathing		1966 Oct p 78-84 [1053]
	1960 Jan p 138-148	Brillouin scattering, coherent radiation, interfer	1968 Sept p 120–136
alveoli, lung collapse, premature infants, lecitl	un, surface tension,	light brine, Red Sea hot brines, salimity, percolation,	
surfactant, hyaline membrane disease, soap	1962 Dec p 120–130	spreading	1970 Apr p 32-42
surface tension in lungs lung, neonatal physiology, respiration, first br		Britain, Neolithic archeology, woodhenges, hen	
fullg, inconatal physiology, respiration, histor	1963 Oct p 27–38	Stonehenge	1970 Nov p 30-38
asphyxia, diving bradycardia, respiratory gas		frontier life, Roman Britain, Hadrian's Wall,	Vindolanda site
mammals, diving birds, hibernation, oxyger	n storage, selective		1977 Feb p 39-46 [692]
ischemia, human physiology, redistribution	of oxygenated blood and	Broca's area, aphasia, brain damage, language,	· .
'master switch of life'	1963 Dec p 92–106	broken English, humor, language, physics, jocul	1972 Apr p 76–83 [1246]
exercise adaptation, heart, blood circulation,	1965 May p 88–96 [1011]	Niels Bohr	1956 Mar p 93–102
physiology gas exchange, thorax, lung pulmonary ventila	ition, alveoli, human	bromide poisoning, patent medicine hazard	1950 Aug p 30
physiology, vital capacity, mechanics and p	hysiology of breathing,	bronchitis, air pollution, emphysema, public hea	
anatomy of lung	1966 Feb p 56-68 [1034]	health, US cities, smog and public health	
anxiety, polygraph, lying, psychosomatic illin		bronchospasm, aspirin, inflammation, analgesic	
temperature, 'he detector' mis-named Ama, diving, diving women, Korea, Japan, hi	1967 Jan p 25–31 [503]	reaction, anaphylactic shock, mode of action widely used drug	1963 Nov p 96–108
metabolism, adaptation	1967 May p 34–43	bronze, Etruscans, metallurgy	1955 Nov p 90–98
lung, gill, oxygen transfer, carbon dioxide, ga	s exchange, water-	Bronze Age, Iron age culture, rock paintings, C.	amunian culture
breathing by mammals, animal experiment	is in water-breathing	Mycenaean civilization, Italian rock carvin	
	1968 Aug. p 66-74 [1123]	burial site, Classical archeology, Greek colon	
Antarctica, seal, directional orientation, brea	69 Aug. p 100–106 [1156]	Indian culture link Iron Age, ironworking history, metallurgy, ca	1960 Oct p 62–71
avian respiratory system, bird bones, lung sti			1977 Oct p 122-131 [699]
• • •	1971 Dec p 72-79 [1238]	wine vessels	1959 Aug. p 70
comparative physiology, blood pressure, extr		arsenic bronze	1967 Apr p 52
	974 Nov p 96–105 [1307] 1952 Dec p 58–60	brown fat, adipose tissue, lubernation, thermore	
breeder reactor, liquid-metal coolant fission reactor, nuclear power, boiling-water		metabolism, cold adaptation, neonatal phy in newborn animals, including man	1965 Aug n 62_65 (1018)
reactor, sodium cooled reactor, fast neutro	on reactor	altitude adaptation, Quechua Indians, acclim	atization, deer mice.
	1954 Dec p 33-39	hemoglobin, metabolic rate, exercise, huma	
'atoms for peace', fission reactor, nuclear po	· ·		1970 Feb p 52-62 [1168]
Gerian social musleus pay on anomy social	1955 Oct p 56-68	brown rat, animal communication, rats	977 May p 106-116 [577]
fission reactor, nuclear power, energy econo	1958 Mar p 29-35	Brownian motion, measurement, time, velocity, Planck's constant, limits of measurement	uncertainty principle,
fission reactor, nuclear power, energy econo	•	mathematics, probability, combinatorial analy	וווג מכאן 15–48 ק לוווג מכאו ל
uranium cycle, breeder reactor developme		Markov chain Pascal's triangle, statistics,	
fission reactor, energy demand uranium fiss	ion, plutonium 'third		1964 Sept p 92~108
generation' breeder reactors	1967 May p 25-33	probabilistic potential theory, potential theor	3, harmonic functions
nuclear power, fast neutron reactor, uraniur liquid metal reactor, fission reactor energians.		Emissillatis in succession	1969 Mar p 66-74
nquia metar reactor, nasion reactor energ	1970 Nov p 13-21 [339]	brucellosis in animals, vaccine Bruegel the Elder, Renaissance technology, tecl	1953 Sept p 84
fast neutron reactor nuclear power, fission	reactor, Superphenix in	practical knowledge at work 400 years ago	mology, gampses of
France	1977 Mar p 26-35	19	78 Mar p 134-140 (3003)
nuclear power, atomic weapon proliferation	arms control plutonium	Bruno, science history, Copernican revolution,	Galileo's heresy.
fuel cycle, US energy policy and prolifer	1978 Apr p 45-57 [3004]	martyrdom of Giordano Bruno re-examine	ed 1973 Apr p 86-94
A E.C approves design	1950 Jan p 28	Bryan, Darwinism, evolution, creationism, Dar trial, U.S.A	row, Scopes trial, Scopes
deferred by A E C	1950 June p 27	bubble chamber, cloud chamber, liquid hydroge	1959 Jan p 120–130
at Arco Idaho	1952 Feb p 34		1955 Feb n 46-50 (216)
Arco design discolsed breaking even	1952 Nov p 42	spark chamber, particle accelerator, cloud ch	amber, particle tracks
nitrogen use of heavy nitrogen in reactor	1953 July p 40		1062 Aug = 26 42
plutonium fucled	1956 Feb p 52 1959 July p 65	alternating gradient synchrotron 'eightfold v	Lat' Omega-minur
uranium ore resources	1961 Mar p 82	particle particle accelerator, high-energy p National Laboratory experiment	mysics US Brookhaven
Atomic Energy Commission program	1963 Jan p 58	new particle trap	1964 Oct p 36-45
		•	1954 Jan p 39

xenon bubble chamber tracks 1956 May p. 5	
bubble chamber experiments, beta decay, high-energy physics, hadrons,	was a sure of the fittee that in the fittee from the state of the stat
neutrino beam, particle accelerator, positron 1973 Aug p. 30-3.	NOMENCE DATE CLAMBE hulding contraction would be and
bubbles, flotation, mineral separation, surfactant, collector ions, ore	0 1961 Nov. p. 144 154
beneficiation 1956 Dec p 99-110	Byzantine shipping, shipbuilding, Rhodian sea law, underwater
bubonic plague, epidemiology, human behavior, public health, Black	archeology, shipwreck of 17th century 1971 Aug p 22–33
Death, population history, long-term effects of plague, Europe 1348-	
50 1964 Feb p 114-121 (619	1
endemic in U.S. prairie rodents 1950 Dec. p. 30	
buffalo, animal husbandry, antelope, giraffe, elephant, rhinoceros,	•
hippopotamus, wildlife husbandry in Africa 1960 Nov p 123-134	C-4 trait, desert plants, efficiency, plant breeding
Buffon needle problem, Monte Carlo method, random numbers,	1973 Oct p 80–93 [128]]
probability, mathematics 1955 May p 90-96	cable television, communication technology, television, wired-city
building codes, building construction, construction technology, housing	concept 1971 Oct p 22–29
1971 Mar p 16-25 [341] building construction, skyscrapers, curtain wall, load-bearing wall	the state of the physicion of the plante, att tellinger,
1955 Mar p 44-48	physostigmine, contine, quintine, cocaine, ricinine, LSD, human toxins in plant physiology 1959 July p 113–121 [1087]
radar domes, pneumatic buildings, construction technology	toxins in plant physiology 1959 July p 113-121 [1087] Cahokia, Amerindian, burial mounds, Mississippian culture, New World
1956 June p 131–138	archeology 1975 Aug p 92–101 [688]
prestressed concrete, architectural engineering, materials technology	calcite, bone, calcium metabolism eggshell, chicken, mobilization of
1958 July p 25-31	calcium from bone 1970 Mar p 88–95 [1171]
Mycenaean civilization, castle, nuraghi, Classical archeology, 1000 BC	crystals, calcium carbonate crystals, crystal structure, embryonic
proto-castles in Sardinia 1959 Dec p 62-69	
architecture, primitive architecture, climate, igloo, teepee, yurt, tent,	calcitonin, thyroid, metabolism, calcium metabolism, bone, human
sod hut, adobe house, hogan, still house 1960 Dec p 134-144	physiology, hormone, recognition and characterization of calcitonin
architectural engineering roof, vault, Gothic arch, Romanesque barrel vault, Byzantine dome, vaulting technics 1961 Nov p 144-154	1970 Oct p 42-50
architecture, sunlight, lighting, solar radiation, glass	calcium, bone, muscle fiber, mitotic spindle, calcium and life 1951 June p 60-63
1968 Sept p 190-202	bone, cartilage, feedback, hydroxyapatite crystal, osteoclasts
building codes, construction technology, housing	1955 Feb p 84–91
1971 Mar p 16-25 [341]	ATP, muscle contraction, barnacle, bioluminescence, aequorin, calcium
climate, Cape Cod cottages in California 1949 Nov p 29	ions in muscle construction 1970 Apr p 84-93 [1175]
bulk effect, isomerism, isotopes, organic chemistry, paths of atoms in	ATP, actin, myosin, actinomyosin, muscle contraction, tropomyosin,
chemical reactions 1957 Nov p 117–126 [85]	troponin, microstructure of muscle filament and biochemistry of
bullet clusters, snow crystals, hexagonal habit, cloud physics, tsuzumi crystals, variations on a theme 1973 Jan p 100–107	contraction 1974 Feb p 58-71 [1290] calcium carbonate, carbon cycle, sedimentary rock, photosynthesis, fossil
crystals, variations on a theme 1973 Jan p 100–107 bumblebee energetics, bee, flower, symbiosis 1973 Apr p 96–102 [1270]	fuel combustion, biosphere, atmosphere, carbon dioxide
buoyancy, marine biology, swim bladder, chambered nautilus, cuttlebone	1970 Sept p 125–132 [1193]
1960 July p 118–128	calcium carbonate crystals, crystals, calcite, crystal structure, embryonic
burial mounds, Amerindian, Hopewell cult, New World archeology	development, sea urchin embryo 1977 Apr p 82–92
1964 Dec p 90-102	calcium-ion activator, cell motility, cell shape, embryonic development,
Amerindian, Cahokia, Mississippian culture, New World archeology	mucrofilaments, microtubules 1971 Oct p 76–82 [1233] calcium metabolism, parathyroid hormone, phosphate metabolism,
1975 Aug p 92–101 [688]	vitamin D, osteogenesis parathyroid function
Amerindian, New World archeology, Labrador 1976 Nov p 122–129 burial site, archeology, Nemrud Dagh, funerary monument, Turkey, tomb	1961 Арг р 56–63 [86]
of Antiochus I 1956 July p 38-44	bone, piezoelectricity, osteogenesis, collagen bone adaptation to
Nile valley, Egyptian civilization, Sakkara, pharaohs, tombs of the first	mechanical stress 1965 Oct p 18–25 [1021]
pharachs 1957 July p 106-110	bone, eggshell, chicken, calcite, mobilization of calcium from bone
Bronze Age, Classical archeology, Greek colony, Bahrain, Sumerian-	1970 Mar p 88-95 [1171] eggshell thinning pollution, chorinated hydrocarbons DDT, dieldnin,
Indian culture link 1960 Oct p 62–71	avian reproduction, insecticide, food chain, ecological effect of
Amerindian, Eskimo, New World archeology, 2000 B C, Port au Choix Newfoundland, skeletons 1970 June p 112-121 [657]	pesticides 1970 Apr p 72–78 [1174]
Choix, Newfoundland, skeletons 1970 June p 112-121 [657] burial treasure, Mycenaean civilization, Classical archeology,	calcitonin, thyroid, metabolism bone, human physiology, hormone,
Agamempon, dig started by Schliemann continues	recognition and characterization of calcitonin 1970 Oct p 42-50
1954 Dec p 12-18	air pollution, rickets, vitamin D, ultraviolet radiation, osteogenesis, epidemiology, sunlight 1970 Dec p 76–91 [1207]
burners, aerospace technology, Coanda effect, fluid dynamics,	calcium pump, bioluminescence, membrane potential, plant cell, ion
aerodynamics, propulsion, nozzles, nature and applications of	potential, electricity in plants 1962 Oct p 107–117 [136]
Coalida effect	calculating machine, mathematics, philosophy, Leibnitz, calculus,
1900 June P 7 2 2	symbolic logic, Leibnitz, biography 1968 May p 94-100
bursa antibodies, cell differentiation, humoral immunity, B-cells, 1-cells,	computer, pocket calculator, integrated circuits, memory 1976 Mar p 88-98
amoune system lymphocytes, invinus 1974 NOV p 30 74 [1991]	abacus, Galileo's sexton, mechanical calculators, slide rule, sexton
burying beetles, insect behavior, beetle, beetle reproduction 1976 Aug p 84–89 [1344]	1976 Apr p 104-113
1970 Aug p 07 02 [22.1]	calculus, Newton, mechanics optics life and work of Isaac Newton
business computers, computer applications, computer goes to market 1954 Jan p 21-25	1955 Dec p 73–80
economic forecasting, economic	mathematics philosophy, Leibnitz, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100
business cycle, economic analysis, economic 1975 Jan p 17–23 indicators	Fuelidean geometry, falling stone problem, infinitesimals,
but diene rubber synthesis, isoprene, Vilcanization, latex, clastering	mathematical logic, method of exhaustion, nonstandard analysis
synthetic rubber, molecular structure	1972 June n. 78–86
butterfly, alkaloids, larvae, symbiosis, insect repellants, ochariora	calculus of chances, chance, probability, odds, causation, philosophy of
adaptation, plant evolution, minusty, 1967 June p. 104–113 [1076]	science, logician's point of-view 1965 Oct p 44-54 Calcutta, shantytowns, cities, urbanization, caste, housing, poverty,
Can appellogy culture of poverty	traffic, Calcutta, a city of the poor 1965 Sept p 90–102
buying habits, poverty, Mexico City, sociology, cuitate p 114-124 [651]	

alefaction, Connecticut River, fission reactor, thermal pollution,	SV40 virus, gene transformation, chromosome mapping, tissue culture,
industrial cooling, nuclear power, fisheries, ecology, fish crisis	somatic cells, hybrid cells, genetics of human cancer
1970 May p 42-52 [1177]	1978 Feb p 117-125 [1381]
alendar, solar system, planetary motion, time, heliocentric theory, year,	research status 1949 June p 26
astronomy, Copernicus, astronomy, Copernicus, length of calendar	as psychosomatic illness 1952 June p 34
1066 Oat n 00 00	human cancer in rats, grafts secured by cortisone 1953 July p 46
year alifornium, table of elements, einsteinium, fermium, 'synthetic' elements,	cancer-inducing DNA 1960 Mar. p 93
transuranium elements, mendelevium, radioactive decay, periodic	viral cancer, mosquito carrier 1962 Apr p 74
	1073 % 42
table at 101 1956 Dec p 66-80 [243]	1000 0
Callisto, Galileo, Jupiter, Jovian satellites, solar system, Europa,	
Ganymede, Io 1976 May p 108-116	cancer 'cure', herbal quackery 1950 Dec p 31
caloric heat theory, ballistics, science history, oven, Rumford, heat as	cancer diagnosis, cancer, enzyme blood levels, myocardial infarction,
motion, Benjamin Thomson, biography 1960 Oct p 158-168	hepatitis, leukemia, medical diagnosis, diagnosis by presence of
calorie: down, joule up 1951 Feb p 34	abnormal enzymes 1961 Aug p 99–107
Calvin cycle, algae, photosynthesis, chloroplast, oxidative	cancer epidemiology, cancer, carcinogenesis, occupational cancer, cancer
phosphorylation, path of carbon in photosynthesis	prevention, increased incidence of cancer sought in environmental
1962 June p 88–100 [122]	and behavioral factors 1949 Jan p 11-15
	carcinogenesis, environmental carcinogens, immune response, gene
camera, eye, rod cells, cone cells, retina, iris, optogram, rhodopsin,	
anatomy and physiology of the eye, camera as metaphor	mutation, virus disease, cancer prevention
1950 Aug p 32-41 [46]	1975 Nov p 64-78 [1330]
lens design, telescope, interferometry, computer graphics, image	environmental and behavioral causes 1948 Dec p 27
formation, light 1968 Sept p 96–108	cancer immunology, antibodies, cancer, cell-surface antigens,
camouflage, birds, caterpillars, mimicry, behavioral adaptation, defense	immunopotentiators, immune response, tumor-specific antigens,
by color 1957 Oct p 48–54	leukemia, transplantation antigens 1977 May p 62-79 [1358]
	cancer prevention, cancer, cancer epidemiology, carcinogenesis,
evolution, melanism, moths, speciation, air pollution, population	cancer prevention, cancer, cancer epideniology, careinogenesis,
genetics, mutation, genetic variation, evolution observed	occupational cancer, increased incidence of cancer sought in
1959 Mar p 48-53 [842]	environmental and behavioral factors 1949 Jan p 11–15
bioluminescence, fish, fish-scale crystals, tapetum lucidum, optics	cancer surgery, perfusing malignant tumors 1959 June p 85
under water 1971 Jan p 64-72 [1209]	cancer therapy, isotopes, X-ray, radiotherapy, ionizing radiation,
Camunian culture, Bronze Age, Iron age culture, rock paintings.	dosimetry, roentgenology, nuclear medicine, radiation use in
Mycenaean civilization, Italian rock carvings 1960 Jan p 52-59	medicine 1959 Sept p 164-176
Canadan destantian as its master are CANDU secretor	radiation damage, nitrogen mustard, carcinogenesis, mutation, nuclear
Canadian deuterium oxide reactor, see CANDU reactor	
'canals', Mars, polar cap, desert, atmosphere, climate, picture from Earth-	medicine, chemical imitation of radiation injury
bound study 1953 May p 65-73	1960 Jan p 99–108
canals, chinampa, drainage, Mexican agriculture, agricultural system,	chelation, hemochromatosis, lead poisoning, pharmacology, drug
Aztec civilization, highly productive farm plots, Aztec empire	action, Wilson's disease, metal poisoning, heavy metal poisoning,
1064 July = 00 00 (640)	bone cancer, salicylates, aspirin, chemotherapy, medical exploitation
1904 July D 30-38 (048)	port cancer, sancyrates, aspirin, enemoticiapy, incurca exploitation
1964 July p 90–98 [648] agricultural irrigation, hydro-engineering, pipelines, Jordan Valley	
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley	of chelates 1966 May p 40-50
agricultural irrigation, hydro-engineering, pipelines, Jordan Valley Plan, water supply, Israel, Jordan 1965 Mar p 23–31	of chelates 1966 May p 40-50 asparaginase, leukemia 1968 Aug p 34-40
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coronary occlusion, diet, lipids, plaque, artery wall	galaxies 1956 Sept p 204–220
1966 Aug p 48-56 cardiovascular surgery, cardiology, Fallot tetralogy, ductus arteriosus	caste, shantytowns, Calcutta, cities, urbanization, housing, poverty, traffic, Calcutta, a city of the poor 1965 Sept p 90-102
1950 Jan p 14–17	class discrimination, Harijans, untouchables, Hinduism, India, civil
vascular surgery, surgical stapler, stapling technic for joining vessels 1962 Oct p 48-56	rights 1965 Dec p 13-17 castle, architectural engineering, war, Norman invasion, English castles,
cardiovascular system, shock, traumatic shock, capillary bed, electrolyte	A D 1066 1958 Mar p 42–48
balance, blood transfusion 1952 Dec p 62–68	Mycenaean civilization, nuraghi, Classical archeology, building construction, 1000 BC proto-castles in Sardinia 1959 Dec p 62-69
capillary bed, blood circulation, mesentery, arteriole, venule 1959 Jan p 54-60	cat brain, dreams, sleep research, electroencephalography, reticular
cargo cult, Christianity, religion, cultural anthropology, Melanesian cargo	formation, brain waves, paradoxical sleep, REM sleep, the states of
cult 1959 May p 117-125 cargo handling, shipping, containerization, automatic control, loading, air	sleep 1967 Feb p 62-72 [504] cat color, genetic variation, human migration, gene mutation, population
transport 1968 Oct p 80–88	genetics, cline maps, Hardy-Weinberg equilibrium
caribou, cold adaptation, rodent, moose, polar ecology, animal adaptation to Arctic 1960 Jan p 60-68	1977 Nov p 100–107 [1370] CAT scan: computer assisted tomography
caries, dentistry, bacteriology, fluoridation, new theory of tooth decay	CAT scan, computer algorithms, computer-assisted imaging, image
1948 Oct p 20-23 dentistry, tooth enamel, bacteriology, causes of tooth decay	reconstruction, computer graphics, medical care, tomography 1975 Oct p 56-68
1957 Dec p 109–116	catalysis, enzymes, digestion, respiration, fermentation, lock-and-key
carnivorous chimpanzees, chimpanzees, food sharing, hunting, omnivorous chimpanzees, feeding behavior, Gombe National Park, Tanzania	theory, science history 1948 Dec p 28-39 air pollution, combustibility, fly ash, dust storms, metallurgy, fine
1973 Jan p 32-42 [382]	particles 1950 Dec p 50-53
carnivorous plants, fungi, soil molds, nematodes, carnivorous fungi 1958 July p 67-72 [1094]	polymers, materials technology, industrial chemistry, stereoisomers, synthesizing giant molecules 1957 Sept p 98–104
voodoo lily, insect attractant, Arum family, respiration	polymers, materials technology, industrial chemistry, stereoisomers,
1966 July p 80-88 active trapper, passive trapper, digestive enzymes, natural history	synthesizing giant molecules 1957 Nov p 98–104 enzyme-substrate complex, enzymes, dialysis 1959 Aug p 119–125
1978 Feb p 104–155 [1382]	lithium, polymerization, stereoisomers, promotion of polymerization
Carnot, Rumford, Joule, science history, heat, pioneers in the theory of heat 1954 Sept p 60-61	by lithium 1963 Jan p 88–102 corona discharge, free radicals, ozone, polymerization, corona
heat 1954 Sept p 60-61 Carnot cycle, heat pump, thermodynamics, principles and applications of	chemistry, water purification, hydrocarbon cracking
heat pump 1951 May p 54-59 Diesel engine, isothermal combustion, automobile engines, Diesel's	1965 June p 90-98 chemical reaction, chemical kinetics, allosteric enzymes, proton
'rational' engine 1969 Aug p 108–117	transfer, enzymes, chemical equilibrium, relaxation methods in
carotene, leaf color, anthocyanins, chlorophyll, primary synthesis of aromatic compounds 1950 Oct p 40-43	chemistry 1969 May p 30-41
aromatic compounds 1950 Oct p 40-43 photosynthesis, chlorophyll, retinene, vision, photobiology,	chemical reaction, industrial processes, petroleum cracking 1971 Dec p 46-58
phototropism, bioluminescence, sunlight, life and light 1959 Oct p 92-108	catalytic polymerization, polyethylene, polymers, thermoplastic polymers,
carotenoids, chloroplast, photosynthesis, chlorophyll, biology of pigments	properties, production, economics of first 1,000 million-pound plastic 1957 Sept p 139–152
1956 Jan p 80-86 flower pigments, pigment synthesis, flavonoids, anthocyanins,	polymers, 'stereoregular' polymers, isotactic polymers, polyethylene, polypropylene, precisely constructed polymers
biochemistry and genetics of flower pigments	1961 Aug p 33-41 [315]
1964 June p 84-92 [186] carrier-wave generator, communication technology, crystal structure.	catalytic proteins, enzyme action, protein-cutting enzymes, proteolytic enzymes, serum proteins, chymotrypsin, elastase, trypsin
diode laser, laser, heterostructure lasers, light-emitting	1974 July p 74–88 [1301]
semiconductor, solid-state electronics 1971 July p 32-40 carrier-wave modulation, coaxial cable, communication technology,	cataract, eye lens, retina, etiology, course and treatment of cataract
electromagnetic spectrum, fiber optics, radiowave, communication	aging, eye lens, human eye, vision 1962 Mar p 106–114 1975 Dec p 70–81
channels, bandwidth, noise 1972 Sept p 98-113 Carroll, mathematics, logic, Dodgson, 'Alice in Wonderland', Lewis	catastrophe theory, discontinuous phenomena, mathematical model,
Carroll (Charles Lutwidge Dodgson), biography	to describe discontinuous processes 1976 Mar n 60D
1956 Apr p 116-128 Cartesian diver, embryonic development, cell differentiation,	'catastrophism', fossil record, species extinction, natural selection,
embryological 'organizer', fundamental research, How do cells	catecholamines, acetylcholine, adrenalin, dopamine, drug effects, nerve
differentiate? 1953 Sept p 108-116 Cartesian geometry, mathematics, analytic geometry, philosophy,	physiology, neurotransmitters, noradrenaline
Descartes, Rene Descartes, biography 1959 Oct p 160-173	1974 June p 58-71 [1297] catenane, chemical topology, topological isomer, cyclic molecules,
Carthage, Classical archeology, Roman colony, archeological 'rescue' campaign 1978 Jan p 110-120 [704]	molecular structure, ring molecules, linking and knotting of ring
Carthaginian fortress, military history, Sardinia 1975 Feb p 80–87 cartilage, bone, calcium, feedback, hydroxyapatite crystal, osteoclasts	formation of hydrocarton rings 1960 Not = 02
1955 Feb p 84-91	caterpillars, birds, camoullage, mimicry, behavioral adaptation, defense
cartography, Mount McKinley, photogrammetry 1949 Jan p 46-51 carts, transportation, wheeled vehicles, oxen, wagons, Transcaucasus,	catfish, hyla, chameleon, skin color, chromatophores, how animals
Mesopotamia origin of wheeled transport 5,000 years ago	change color 1952 Mar p 64-67 walks and breathes air
1968 July p 82-90 casein, lictogenesis milk, mammary gland, hormonal action cell	catharsis, aggression, violence, delinquency, motion picture film
secretion composition and synthesis of cow's milk	television, effects of observing filmed violence
Caspian sea, salt falling level of Caspian 1969 July p 58-68 1963 Aug p 94-100	cathode-ray tube, electronics, electron tubes, amplifiers, communication technology, rectifiers electron optics, communication, power,

thermionic emission, state of the technology 1950 Oct p 30-39	
) call communication and the
computer technology, computer displays, information theory, light pen	
computer graphics, rand tablet, computer graphics and man-	reflexes, neuroreceptors, relina, nerve impulse, neurotransmitters
	neural synapse, cytology, neuromuscular synapse, how cells
	communicate 1961 Sept. p. 209–220 1981
electronic typesetting, printing, photographic typesetting, digital	adrenal gland, ACTH, pituitary gland, molecular structure of ACTH
computer, mechanical composition, computer applications	relation to function 1062 Tulu = 46 52 (160)
1969 May p 60-69	genetic code, communication, nerve impulse, hormonal action,
Crookes tube, oscilloscope, vacuum tube, Ferdinand Braun's invention	e inpuise, normonar action,
1974 Mar p 92–101	metabolic information 1972 Sept p 42–51 [1257]
cationic detergent, synthetic detergents, amonic detergent, surfactant,	the state of the s
nature and action of synthetic detergents 1951 Oct p 26-30	human cells 1957 Aug p 91–100 [33]
	, and the second
cattle, animal husbandry, dairying, Zebu cattle, European cattle, selective	
stock breeding 1958 June p 51–59	experiments in aging 1968 Mar p 32–37 [1103]
biological pest control, screw worm fly, X-ray, sterilization, pest	cell differentiation, larvae, fruit fly, transdetermination
control, eradication of the screw worm fly 1960 Oct p 54-61	1968 Nov p 110-120 [1127]
animal husbandry, Karimojong, subsistence herding, Uganda	cell hybridization, cell differentiation, hybrid cells, Sendai virus, gene
1969 Геb р 76-89	mapping, mouse-rat, mouse-human hybrid cells in laboratory
beetle, coprid beetles, dung beetles 1974 Apr p 100-109	1969 Apr p 26–35 [1137]
a disease called 'X' 1948 Dec p 27	
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causation, chance, probability, odds, calculus of chances, philosophy of	cell differentiation, protozoon, regeneration, embryonic development,
science, logician's point-of-view 1965 Oct p 44-54	protozoon as model for embryological study 1953 Mar p 76-82
cavalry, Mongol conquests, war, Chingis Khan, frontier history, nomatic	embryonic development, embryological 'organizer', Cartesian diver,
civilization, Chingis Khan, biography 1963 Aug. p 54-68	fundamental research, How do cells differentiate?
cave art, cave paintings, Paleolithic archeology, sculpture, Lascaux,	1953 Sept p 108-116
Altamira 1968 Feb p 58–72	embryonic development, blastula, gastrula, fertilization ectoderm
cave bear, bears, Ice Age, extinction mechanism 1972 Mar p 60–72	mesoderm, endoderm, embryological 'organizer', science history,
cave dwellers, Peru, stone tools, human evolution, Ayacucho site	review of classical embryology 1957 Nov p 79–88 [103]
1971 Apr p 36-46	
	embryonic development, feedback, tissue specialization 1958 Dec p 36-41
cave paintings, Paleolithic Europe, Cro Magno art, Magdalenian,	
Aurignacian-Perigordian 1953 Aug p 30–33	Hydra, sexual reproduction, asexual reproduction, growth regulation
cave art, Paleolithic archeology, sculpture, Lascaux, Altamira	carbon dioxide as 'sex gas' 1959 Apr p 145–156
1968 Feb p 58–72	amoebae, social amoebae, slime mold, Dictyostelium cell aggregation,
caves, ecology, degenerative evolution 1955 May p 98–106	acrasin 1959 Dec p 152–162
cavitation, droplet-levitation technique, liquids, negative-pressure	tissue specialization, 'lampbrush' chromosome, embryonic
concept, tensile strength, surface tension 1972 Dec p 58-71	development, zygote, fertilization, ovum, clone, cytology, how cells
C.E.D.: Committee for Economic Development	specialize 1961 Sept p 124-140
C.E.D. recommendations, Congressional role in arms policy	cell aggregation, heart cells, heart contraction, myogenic rhythm, rat
1974 Oct p 55	cardiac cells in vitro 1962 May p 141-152
Cedros Trough, Pacific Ocean, earth crust, Acapulco trench, Tonga	muscle tissue, embryonic cells, cell culture, clone, origin of muscle in
	embryonic development 1964 Aug p 61-66
Trench, ocean floor 1955 Nov p 36-41 [814] celestial energy, cosmological 'hangups', energy cycle, power, radiation	cell culture, larvae, fruit fly, transdetermination
celestial energy, cosmological hangups, energy cycle, power, rudation	1968 Nov p 110–120 [1127]
energy, entropy per unit energy, gravitational energy, stellar evolution, thermonuclear energy 1971 Sept p 50-59 [662]	nucleus transplantation, clone, genetic engineering somatic cell
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	nucleus, gene complement, frog embryo, gene regulation
celestial masigation, bird migration, bird navigation, blackpoll warbler,	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128]
celestial navigation, bird migration, bird navigation, blackpoll warbler,	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture
celestial master, radio astronomy celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327]	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36-44 [1136]
celestial master, radio astronomy celestial navigation, bird migration, bird navigation, blackpoll warbler, indigo bunting, planetarium experiments 1975 Aug p 102–111 [1327] by radio sextant 1959 Apr p 70	nucleus, gene complement, frog embryo, gene regulation 1968 Dec p 24-35 [1128] embryonic development, pancreas, mesoderm, endoderm, tissue culture 1969 Mar p 36-44 [1136] cell culture, cell hybridization, hybrid cells, Sendai virus, gene
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cell junctions, cell membrane, the three kinds of cell junction	calcium-ion activator, cell shape, embryonic development,
1978 May p 140–152 [1388]	microfilaments, microtubules 1971 Oct p 76–82 [1233]
cell life cycle, ascites tumor, isotopes, radioautography, cellular	ATP, axoneme, cilia, flagella, microtubules, how cilia move,
autobiography 1963 Aug p 103–110 [165]	paramecium, sperm 1974 Oct p 44–52 [1304]
cell membrane, 10n potential, nerve impulse, biological role of potassium	bacterial motility, chemotaxis, flagellar action, E coli
1949 Aug. p 16–21	1976 Apr p 40–47 [1337]
cell organelle, mitochondria, metabolism, enzymes, cell metabolism,	wound healing, cell tracks, embryonic development, tubulin, mitotic
'nowerhouse of the cell' 1957 July p 131–140 [30]	apparatus, cell motion made visible to naked eye
insulin, amino-acid sequence, sugar metabolism, human physiology,	1978 Apr p 68–76 [1386]
action of insulin 1958 May p 99-106	cell nucleus, cytosurgery, micromanipulator, on transplanting nuclei
pores, erythrocyte 1960 Dec p 146–156	1952 Apr p 58–64
pinocytosis cytology, cell metabolism, ingestion by outer membrane	cytoplasm, cell organelle, chromosome, cell physiology, RNA, DNA,
1961 Apr p 120–130	endoplasmic reticulum, cytology, nuclear control of cell
active transport, passive transport, pinocytosis, phagocytosis, cytology,	1960 Jan p 126–136
osmosis, fertilization, functions of cell membranes	Acetabularia, giant cells, mermaid's wineglass, cytoplasm, algae, giant
1961 Sept p 167–180 [96]	cells in study of nucleus-cytoplasm interaction
electron microscopy, endoplasmic reticulum, myelin sheath,	1966 Nov p 118–124 [1057]
mitochondria, nuclear membrane, electron microscope study of	chromatin, chromosomal proteins, DNA, gene regulation, histones,
membranes in cell 1962 Apr p 64–72 [151]	nucleoproteins, oxidative phosphorylation
kidney tubule, sodium pump, membrane potential, active transport,	1975 Feb p 46–57 [1315]
biological pumps 1962 Aug p 100–108	see also spermatozoon nucleus
phospholipids, phosphatidic acid cycle, nerve cells, cell secretion,	cell organelle, mitochondria, metabolism, enzymes, cell metabolism, cell
membrane transport potential 1965 Oct p 78–86 [1022]	membrane, 'powerhouse of the cell' 1957 July p 131-140 [36]
ATP, mutochondrion, glycolysis, enzymes, oxidative phosphorylation,	cell nucleus, cytoplasm, chromosome, cell physiology, RNA, DNA,
cell metabolism, mitochondrial membrane	endoplasmic reticulum, cytology, nuclear control of cell
1968 Feb p 32–39 [1101]	1960 Jan p 126–136
bacteriophage, receptor specificity, bacterial receptor sites, O antigen,	microsurgery, laser, cell, physiology, laser lesions
Salmonella 1969 Nov p 120–124 [1161]	1970 Feb p 98-110 [1170]
intercellular communication, salivary gland, epithelium, molecular	chloroplast, mutochondria, symbiosis, DNA, prokaryote origin, protein
signals, membrane permeability, junctions in cell membrane	synthesis, plastids, cell evolution, extra nuclear genetic activity in
1970 May p 78–86 [1178]	cell 1970 Nov p 22–29 [1203]
enzymes, artificial membranes, enzyme action, enzymes as industrial	cell evolution chloroplast, endosymbiosis, eukaryotic cells,
catalysts 1971 Mar p 26–33 [1216]	mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella,
membrane lipids, membrane permeability, phospholipids, membrane	plastids 1971 Aug p 48–57 [1230]
proteins, active transport 1972 Feb p 30-38 [1241]	peroxisome 1969 July p 52
immune response, organ transplant, tissue grafts, tissue typing, self-	ribosome, RNA, protein synthesis, structure of the ribosome
marker hypothesis 1972 June p 28–37 [1251]	1969 Oct p 28 [1157]
mitosis, mitotic spindle, cell reproduction, chromosome replication, cell	cell perfusion, axon, neurology, nerve conduction Schwann cell,
life cycle 1974 Jan p 54-64 [1288]	axoplasm, membrane potential perfusion technique, structure of
lipid molecules, membrane proteins, membrane structure, active	axonal tube, physiology of neural transmission, concentration
transport 1974 Mar p 26–33 [1292]	gradients 1966 Mar p 74-82 [1038]
cell secretion, endoplasmic reticulum, exocy tosis, membrane fusion,	cell physiology, cell nucleus, cytoplasm, cell organelle, chromosome,
fluid-mosaic model of membrane 1975 Oct p 28–37 [1328]	RNA, DNA, endoplasmic reticulum, cytology, nuclear control of cell
ATP, colicine, membrane energetics, active transport, E. coli	1960 Jan p 126–136
1975 Dec p 30-37 [1332]	baking, yeast, brewing riboflavin synthesis, cryptococcal meningitis,
antibodies, histocomptability, antigens, immune response,	fermentation yeasts, useful and noxious 1960 Feb p 136-144 aging, gerontology, life expectancy, manifestations of aging
immunoglobin, lymphocytes, B-cells T cells 1976 May p 30-39 [1338]	
	1962 Jan p 100-110 cell receptors, endocrine hormones, gene regulation, hormonal action,
bacteria, halobacteria, photosynthesis, rhodopsin, salt-loving bacteria 1976 June p 38-46 [1340]	protein synthesis, steroid hormones 1976 Feb p 32–43 [1334]
	protein synthesis, steroid hormones 1976 Feb p 32–43 [1334] cell 'recognition', cell aggregation, tissue differentiation, cytology.
agglutination response, cancer, immunology, lectins, proteins 1977 June p 108–119 [1360]	embryonic development, how cells associate 1961 Sept p 142–165
ATP, oxidative phosphorylation, active transport, mitochondrion,	cell reproduction, mitosis, mitotic spindle, cell membrane, chromosome
chloroplast, formation of the energy-exchange molecule in the cell	replication cell life cycle 1974 Jan p 54-64 [1288]
1978 Mar p 104–123 [1383]	see also chromosome replication, meiosis, mitosis
cell junctions, the three kinds of cell junction	cell secretion, cell membrane, phospholipids, phosphatidic acid cycle,
1978 May p 140-152 [1388]	nerve cells membrane transport potential 1965 Oct p 78–86 [1022]
membrane proteins 1975 June p 44	lactogenesis milk, mammary gland, casein, hormonal action,
cell memory, mollusk nerve cell 1965 Oct p 41	composition and synthesis of cow's milk 1969 July p 58-68
cell metabolism, cell organelle, mitochondria metabolism, enzymes cell	cell membrane endoplasmic reticulum, exocytosis membrane fusion,
membrane, 'powerhouse of the cell' 1957 July p 131–140 [36]	fluid mosaic model of membrane 1975 Oct p 28-37 [1328]
ATP, citric acid cycle, mitochondrion, mitochondrion as site of	cell shape, calcium-ion activator, cell motility, embryonic development
biological oxidation 1958 July p 56–62	microfilaments, microtubules 1971 Oct p 76-82 112331
cell membrane, pinocytosis cytology, ingestion by outer membrane	cell sorting, automatic cell sorting, fluorescence activated technique
1961 Apr p 120–130	1976 Mar p 108–117
ATP, chloroplast, mitochondrion photosynthesis, glucogenesis citric-	cell structure, wood cellulose lignin, grain structure 1953 Jan p. 64_67
acid cycle, glycolysis, oxidative phosphorylation cytology, cellular	neutron-beam scattering technique, protein synthesis, ribosome.
transformation of energy 1961 Sept p 62-73 [91]	structure of ribosome 1976 Oct p 44-54
ATP, mitochondrion glycolysis cell membrane, enzymes oxidative phosphorylation mitochondrial membrane	cell-surface antigens, cell culture cell differentiation, immune response,
1968 Feb p 32–39 [1101]	immunoglobin lymphocytes 1973 June p 82–91 [1275]
ACTH ATP, glucogenesis glycolysis hormone, epinephrine, cyclic	blood plasma, collagen glycoproteins, interferon, protein molecule
AMP, activation of cyclic AMP by hormones	antibodies cancer concer concer (2005)
1972 Aug p 97-105 [1256]	antibodies cancer, cancer immunology, immunopotentiators immune
cell motility, amochae phagocytosis cytoplasmic streaming sol-gel	response tumor-specific antigens, leukemia, transplantation antigens
reaction front contraction theory of amoeboid motion	antigens graft rejection histocompatability, immune response, H-2
1962 Feb p 112-122 [182]	antigens HLA antigens 1977 Oct p 96-107 (1360)
• • •	antigens HLA antigens 1977 Oct p 96–107 [1369]

cell tracks, cell moulity, wound healing embryonic development, tubulin,	
mitotic apparatus, cell motion made visible to naked eye	interneuron, motor neuron stretch soffer Parchay !!
m gold dust 1978 Apr p 68-76 [1386]	1966 May n 102 110
in gold dust 1977 Sept p 102 cell transformation, gene culture, polyoma virus, SV40 virus, viral DNA,	animal behavior, mollusks, neurophysiology 1971 Feb n 68,75 117121
viral carcinogenesis 1967 Apr. p. 28–37 110691	Utilitati symmetry, telleright act monates, manage engage
cell wall, gene transformation, pneumococcus, recombinant DNA.	1971 Mar n 96_104 15351
transformation induced by factor synthesized by cell	drug-induced imagery, hallucination, perceptual illusions, perceptual-
1969 Jan p 38–44	release theory 1977 Oct p 132–140 15791
bacterial cell, bacterial metabolism, penicillin, polysaccharides,	the state of the s
glycopeptides, membrane 1969 May p 92-98	of China, Guatemala, rural markets 1975 May p 66-79
cellulose, monosaccharides, plant cell, polysaccharides	
1975 Apr p 80-95 [1320]	compressor, ducted fan, electric power generation
cello, bass, viola, violin, Chladni patterns, music, musical instruments,	1953 Nov p 65-72 centrifuge, blood plasma, blood fractionation, erythrocyte, leukocyte,
physics of violins 1962 Nov p. 78-93	
cellular polarity, regeneration, biological form, cell differentiation,	platelets, blood transfusion, blood banks 1954 Feb p 54-62 centrioles, mitotic spindle, sea urching egg, chromosome, digitonin
embry onic development, Hydra, morphogenesis, morphogens	1953 Aug p 53-63
1974 Dec p 44-54 [1309]	C.E.P.: circular error probability
cellulose, synthetic fiber, rayon, nylon, synthetic macromolecules, glass,	C.L.P., counterforce strategy, atomic weapons, cruise missiles, MIRV,
man-made textile fibers 1951 July p 37-45	arms race, missile accuracy, strategic weapons, accuracy as multiplier
wood, lignin, cell structure, grain structure 1953 Jan p 64-67	of force 1975 July p 14-23
soil conditioners, humus, polyacrylates, polyvinylites, tilth	cephalization index, brain evolution, brain size, endocranial casts
1953 Aug p 36–38	intelligence, paleoneurology 1976 Jan p 90-101 [568]
rayon, forest products, crystal structure, lignin, polymers, paper,	cephalopods, squid, giant axon, nerve impulse 1951 Apr p 64-69
polysacchandes, overview of natural polymer 1957 Sept p 156-168	Cepheid variable, universe expansion, Clouds of Magellan, Andromeda
algae, xylan, mannan, plant cell wall, xylan, mannan in place of	Galaxy, galactic yardstick, doubling of yardstick doubles size and
cellulose in marine plant tissue 1968 June p 102-108 [1110]	age of the universe 1953 June p 56-66
forest products, wood pulp, paper, lignin, rayon, waste recycling, kraft	galactic evolution, 'cosmic yardstick', universe evolution
process 1974 Apr p 52-62	invisible twin North Star of Polaris 1959 July p 48-55 1956 Feb p 56
cell wall, monosacchandes, plant cell, polysacchandes 1975 Apr p 80-95 [1320]	invisible twin North Star of Polaris 1956 Feb p 56 cosmology, intergalactic yardstick lengthens 1958 Sept p 86
molecule synthesized 1957 Aug p 60	ceramics, materials technology, glass fiber, optical glass, amorphous
cellulose digestion, ruminants, metabolism, symbiosis, anaerobic	solid, properties of glass as 'undercooled liquid' 1961 Jan p 92-104
metabolism, fermentation, how cows digest grass	glass, metals, materials technology, polymers, chemical band,
1958 Feb p 34-38	composite materials, atom, elements, introduction to single-topic
shipworm, Teredo, natural history 1961 Feb p 132-142	issue on materials 1967 Sept p 68-79
Celtic Britain, archeology, Celtic culture, Gussage site	aluminates, materials technology, crystal structure, silicates, heat
1977 Dec p 156-159 [702]	resistance, ionic bonds, covalent bonds, nature of ceramics
Celtic culture, archeology, Celtic Britain, Gussage site	ductility in single-crystal magnesium oxide 1958 Apr p 50
1977 Dec p 156-159 [702]	ductility in single-crystal magnesium oxide 1958 Apr p 50 cerebellar cortex, brain, brain circuitry, neuronal networks, Putkinje
Celtic religion, Gauls in France, Seine River source, shrine of Sequana 1971 July p 65-73	cells, mossy fibers 1975 Jan p 56-71 [1312]
cement, concrete, Portland cement, hydration, X-ray diffraction,	cerebellum, brain, cerebral cortex, cerebrum, brain surgery.
chemistry of concrete 1964 Apr p 80–92	electroencephalography, 'the great raveled knot', localization of
chemical reaction, high-alumina cement, Portland cement, cement	brain function 1948 Oct p 26-39 [13]
hardening and strength 1977 July p 82–90 [370]	brain, central nervous system cerebrum, neurophysiology, cerebral-
census, USSR. 1959 Sept p 104	cerebellar coordination 1958 Aug p 84-90 [38]
see also U.S. census	brain organization, cerebral motor cortex, muscle control, monkey
center-pivot irrigation, irrigation, ground water, agricultural technology	experiments 1973 July p 96–103 [1277] cerebral cortex, brain, cerebrum, cerebellum, brain surgery,
1976 June p 30-33	electroencephalography, 'the great raveled knot', localization of
central city, US census, urbanization, age-sex distribution, baby boom, family size, suburbs, US census at 1960 1961 July p 39-45	brain function 1948 Oct p 26-39 [13]
family size, suburbs, US census at 1960 1961 July p 39-45	memory, brain, learning fundamental research, What is memory?
housing, urban planning, suburbs, cities, metropolitan area, conurbation, evolution of the metropolis 1965 Sept p 64-74	1953 Sept p 118-126 [11]
local government cities New York, metropolitan region, suburbs,	creativity, neurophysiology, imagination, neuronal networks
Morthaget Corridor regional planning 1900 Sept p 134-140	physiology of imagination 1958 Sept p 135-146 [65]
when mlanging nities highway engineering, mass transit, open space,	mammalian brain, corpus callosum, brain hemispheres split-brain
3	experiments, monkey, cat, human post-operative subject 1964 Jan p 42-52 [174]
central nervous system, poliomyelitis virus, infective specificty, infective	animal behavior, learning striatum, bird nervous system, crows
specificity, epidemiology, nature of the disease and public methods	pigeons, canaries, chickens 1968 June p 64-76 [515]
status before production of the vaccines 1950 Aug p 22-26 acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional	brain damage, speech, writing, brain hemispheres, functional
	organization of the brain 1970 Mar p 66-78 [526]
1. trans of name in the second	information processing 1956 Oct p 72
the manufacture brain perception, motor reneas	see also visual cortex cerebral dominance, brain hemispheres, perception, split-brain
	experiments, corpus callosum, intelligence, language, localization of
	brain function 1967 Aug p 24-29 [508]
brain, cerebellum, cerebrum, neurophysiology, cerebral-cerebellar 1958 Aug p 84-90 [38]	brain hemispheres, left-hemisphere functions, music perception right-
coordination ganglion reflexes.	hemisphere functions, auditory perception, visual perception
coordination cell communication, nerve conduction, ganglion reflexes, neuroreceptors, retina, nerve impulse, neurotransmitters, neural neuroreceptors, retina, nerve impulse, neurotransmitters, neural	1973 Mar p 70-78 [554] auditory perception brain hemispheres, musical illusions handedness
neuroreceptors, retina, nerve impulse, incutorial neuroreceptors, ne	hearing illusions, perception two-tone illusions franced master in the state of the
synapse, cytology, neuromuscular synapse, now 1961 Sept p 209–220 [98]	19/2 Uct p 92~104 (566)
computer technology, redundancy, rehability, error suppression 1964 Feb p 103-112 [298]	parabral hamarchaga, surgery, cerebral vascular accident, atherosclerosis,
1964 Feb p 103-112 [270]	microvascular surgery, repair and prevention of stroke by
	microvascular bypass operation 1978 Apr p 58-67 [1385]

erebral motor cortex, brain organization, cerebellum, muscle control,	digital computer, magnetic bubble memories, moving-surface
monkey experiments 1973 July p 96–103 [127/]	memories, semiconductor memories, microelectronics
erebral organization, split-brain 1961 Aug p 66	1977 Sept p 130–145 [378] find early application 1972 June p 52
erebral palsy, brain damage, birth trauma. asphyxia, monkey	find early application 1972 June p 52 charge distribution, atomic nucleus, nuclear fission, nuclear probe, shell
experiments, implications for human infants 1969 Oct p 76-84 [1158]	model, shape and size of nucleus 1969 Aug p 58–73
cerebral vascular accident, surgery, atherosclerosis, microvascular surgery,	charge exchange, atomic nucleus, shell model, optical model, high-energy
cerebral hemorrhage, repair and prevention of stroke by	physics, liquid-drop model, spin-orbit force, resonance 'particles',
microvascular bypass operation 1978 Apr p 58–67 [1385]	proton, neutron, structure of the nucleus 1959 Jan p 75-82
cerebrospinal fluid, sleep deprivation, goat experiments	charge parity, see CP
1976 Aug p 24–29 [571]	charge parity time, see CPT charge transfer, charge-coupled devices, computer memory, image
cerebrum, brain, cerebral cortex, cerebellum, brain surgery,	sensing, semiconductor memories 1974 Feb p 22–31
electroencephalography, 'the great raveled knot', localization of brain function 1948 Oct p 26-39 [13]	charm, antimatter, electron-positron annihilation, J particle, psi particle,
brain, cerebellum, central nervous system, neurophysiology, cerebral-	color, quark, high-energy physics, storage rings, virtual particles
cerebellar coordination 1958 Aug p 84–90 [38]	1975 June p 50–62
Cerenkov radiation, Compton effect 1951 Oct p 54-55	charmed quarks, charmonium, high-energy physics, gauge theory,
high-energy physics, tachyons, speed of light, special relativity,	hadrons, leptons, quark hypothesis, 'color' and 'flavor' in quarks 1975 Oct p 38-50
hypothetical particles faster than light 1970 Feb p 68-77 for particle counting 1952 Aug p 33	hadrons, high-energy physics, quantum mechanics, quark, charm
for particle counting 1952 Aug p 33 cermets, composite materials, dispersion-strengthened composites, fiber-	1977 Oct p 56–70 [388]
reinforced composites, particulates 1973 July p 36-44	charmonium, charmed quarks, high-energy physics, gauge theory,
C.E.R.N.: European Organization for Nuclear Research	hadrons, leptons, quark hypothesis, 'color' and 'flavor' in quarks
C.E.R.N., nuclear power, 'atoms for peace', thermonuclear reaction,	1975 Oct p 38–50
fission reactor, fusion reactor, first of a four-part report on the	Chaucer, amateur astronomer 1952 Dec p 30 Chédiak-Higashi syndrome, brain disease, scrapie, kuru, virus disease,
International Conference on the Peaceful Uses of Atomic Energy, Geneva. August 1945 1955 Oct. p. 27-33	animal vectors, multiple sclerosis 1967 Jan p 110–116
Geneva, August 1945 colliding-beam accelerator, high-energy physics, particle interaction,	cheetah, badger, dog, horse, locomotion, deer, comparative anatomy,
proton-proton interaction 1973 Nov p 36-44	running, how animals run 1960 May p 148-157
Bloch director 1954 Sept p 74	Chekhov, as physician 1974 Nov p 54
Bakker, director 1955 May p 50	chelate, poisons, ionizing radiation, radioautography, 'bone-seekers',
300-GeV particle accelerator 1971 Apr p 49	scintillation counter 1955 Aug p 34–39 chelate cage, laser, liquid lasers, rare-earth ions, solvation shell,
ceruloplasmin, hemocyanın, oxygen transport, enzymes, copper deficiency, cytochrome oxidase, copper biochemistry, Wilson's	comparison of liquid, gas and solid-state lasers 1967 June p 80–90
disease, tyrosinase 1968 May p 102–114	chelation, metal ions, sequestering, ring compounds, porphyrin ring,
cesium clock, atomic clock, ammonia maser, maser, zenith tube, mercury	organometallic compounds, metal-poisoning antidote, chemical
mirror, improvements on sidereal time 1957 Feb p 71–82 [225]	separation 1953 June p 68–76
length standard, mass standard, time standard, temperature standard,	berylliosis, occupational health, phosphorus, fluorescent light, high technology disease 1958 Aug p 27–33
interferometry, measurement 1968 June p 50-62 cesium-ion beam, ion propulsion, plasma jet, jet velocity,	technology disease 1958 Aug p 27–33 hemochromatosis, lead poisoning pharmacology, drug action, Wilson's
magnetohydrodynamics, electrical propulsion, space exploration	disease, metal poisoning, heavy metal poisoning, bone cancer,
1961 Mar p 57-65	salicylates, aspirin, cancer therapy, chemotherapy, medical
cetacea, see whale, porpoises	exploitation of chelates 1966 May p 40-50
Chaga's disease, public health, 'zoonoses', parasitism, trypanosomiasis, malaria, filariasis, leishmaniasis, plague, yellow fever, typhus,	chemical accelerators, molecular beam, ion beam, sputtering, high-energy chemistry 1968 Oct. p. 44-52
epidemiology, animal infection and human disease	chemistry 1968 Oct p 44-52 benzene, carbon chemistry, origins of life, high-energy carbon reactions
1960 May p 161–170	1975 Jan p 72–79
insect venom, assassin bugs, predator-prey relationship, entomology,	chemical analysis, infrared spectroscopy, molecular bonds, molecular
natural history 1960 June p 72–78	vibrations 1953 Oct p 42–48 [257]
chain reaction, free radicals, chain initiators, half-life reaction kinetics 1953 Dec p 74–78	prospecting, uranium ore, chemical prospecting 1957 July p 41–47 chemical band, glass, metals, materials technology, ceramics, polymers,
Challenger, oceanography, marine biology 1953 May p 88–94	composite materials, atom, elements, introduction to single-topic
chalone, cell-division depresser 1967 July p 44	issue on materials 1967 Sept. p. 68–79
chambered nautilus, marine biology, buoyancy, swim bladder, cuttlebone	chemical-biological warfare, bacteria, chemical weapons, biological
1960 July p 118–128 chameleon, hyla, catfish, skin color, chromatophores, how animals	weapons Vietnam war, arms race, CS gas, virus disease, rickettsiae, tear gas, herbicide 1970 May p. 15-25 111761
change color 1952 Mar p 64-67	tear gas, herbicide 1970 May p 15-25 [1176] U S policy 1966 Apr p 49
chance, probability, odds, calculus of chances, causation, philosophy of	U S policy 1970 Jan p 48
science, logician's point-of-view 1965 Oct p 44-54	Geneva Protocol 1975 Mar p. 47
Chandler wobble, earthquake effects, Earth rotation, precession 1971 Dec p 80-88 [897]	chemical bond, ionic bonds, covalent bonds, hydrogen bonds. Van der
Channeled Scabland, post-glacial 'catastrophe' 1974 June p 52	Waals force, long-range forces, antigen-antibody reaction, proposed intermolecular long-range force 1948 Oct p. 14-17
channeling, crystal structure, ion beam 1968 Mar p 90-98	radioactive decay, 'hot atom' chemistry 1950 Mar p 44–47
Charente skull, Homo sapiens Neanderthal man, Galley Hill skull.	chemistry, molecular structure, crystal structure, protein structure
human evolution, Swanscombe cranium, antiquity of Homo sapiens	chemical kinetics, science, chemistry 1900-1950 1950 Sept. p. 32-35
1948 July p 16–19 charge carriers, electrical conductivity, Fermi surface, semiconductor,	quantum mechanics noble gases, compounds of 'inert elements'
materials technology, quantum mechanics, electron mean free path.	1964 May p 66-77 conformational isomerism, hydrocarbons, organic molecules
electrical properties of materials 1967 Sept. p. 194-204	conformation and reactivity 1970 Jan n 58 70 (221)
charge-changing accelerator, particle accelerator, Van de Graaf generator,	aging radiation damage, free radicals, electron-crip recogance
charge conservation, time reversal, symmetry, parity, lambda decay, CPT	spectroscopy, effects of free radicals on living systems
conservation, proton spin, experiments in time reversal	atomic nucleus energy levels, gamma radiation, molecular structure,
1969 Oct p. 88-101	MOSSOGUEI SPECIFOSCOPY 1071 On the second
charge-coupled devices, charge transfer, computer memory, image sensing, semiconductor memories 1974 Feb. p. 22–31	chemical communication, see neurotransmittees photomore
sensing, semiconductor memories 1974 Feb p 22–31	compound reporting center, National Research Council
	1948 Oct p 25

chemical defense, sawfly larva 1974 July p. 49	
chemical defense, sawfly farva chemical effects, ionizing radiation, photoelectric effect, Compton effect,	2 Anion
cytology, free radicals, lethal effects of radiation 1951 Dec p 22-22	Livoisier 1956 May n
chemical equilibrium, chemical reaction, chemical kinetics, allosteric	, which believe, or action, taste
enzymes, proton transfer, enzymes, catalysis, relaxation methods in	1952 Mar p 28-3:
chemistry 1969 May n. 3041	taste receptors, blowfly 1961 May p 15 mosquito repellants, mosquito targets 1975 July p 16
chemical evolution, carbonaceous chondrites, meteoritic amino acids	chemosensors, see chemoreceptor
meteoritic hydrocarbons, Oparin-Haldane hypothesis	chemotaxis, salmon, fish migration, homing behavior, animal navigi
1972 June p 38-46 [902]	
chemical experimentation, Boyle's law, pneumatics, science history,	1955 Aug p bioluminescence, firefly, insect behavior, insect physiology, lucife
philosophy 1967 Aug p 96–102	luciferase, biochemistry of bioluminescence
chemical industry, acetylene, plastics 1949 Jan p 16-21	1962 Dec p 76-89
plant growth, food production, fertilizers, agricultural technology,	insecticide, insect attractant, synthetic attractants, odor-baited lur
increasing world food supply 1965 June p 62–72	pheromones, third-generation insecticides 1964 Aug. p. 20-27
Germany, recovering from war 1949 June p 28 plant expansion 1953 Mar p 47	Proceed business, butters
plant expansion 1953 Mar p 47 chemical kinetics, chemistry, chemical bond, molecular structure, crystal	12/1 1/10 p 20 100 [
structure, protein structure, science, chemistry 1900-1950	animal navigation, herring, shad migration, homing behavior,
1950 Sept. p. 32–35	temperature as migration control 1973 Mar p 92–98 [
Name chemistry, flash tube, ram jet, heat, velocity, luminosity,	gypsy moth, biological pest control, pheromones, olfactory recepte sex attractants, silk moth, communication 1974 July p 28-35 [
spectroscopy 1953 May p 29-35	bacterial motility, cell motility, flagellar action, E coli
chemical reaction, allosteric enzymes, proton transfer, enzymes,	1976 Apr p 40-47 [
catalysis, chemical equilibrium, relaxation methods in chemistry	insecticide, sex-hormone attractant 1953 Dec
1969 May p 30-41	chemotherapy, leukemia, leukocyte, cancer, virus, ionizing radiation,
chemical laser, laser, infrared radiation, chemical pumping	Down's syndrome, origin and treatment of lymphocytic and
1966 Apr p 32-39 [303]	granulocytic leukemia 1964 May p 8
hydrogen-chlorine reaction 1965 Apr p 58	chelation, hemochromatosis, lead poisoning, pharmacology, drug
chemical milling, etching, metal cutting, operation of chemical mill	action, Wilson's disease, metal poisoning, heavy metal poisoning
chemical mutagens, agronomy, plant breeding 1971 Jan p 86-95 [1210]	bone cancer, salicylates, aspirin, cancer therapy, medical exploitation of chelates 1966 May p 40
chemical pesticides, US legislation 1963 July p 64	drug effects, liver function, pharmacology, vaccine, hormone,
chemical publication, US leading 1948 Dec p 26	antibiotics, medical care, herbial medicine 1973 Sept p 102-
chemical pumping, chemical laser, laser, infrared radiation	cyanate, genetic disease, anemia, hemoglobin, erythrocyte, sickle ce
1966 Apr p 32-39 [303]	disease 1975 Apr p 44-50 []
chemical raw material, coal, fossil fuel, coking, 'water gas' process,	see also antibiotics, cancer therapy, nitrogen mustard and the like
hydrogenation 1955 July p 58-67	chernozems, soil structure, podzols, latozols, tundra, alluvial soils,
chemical reaction, photolysis, photochemistry, reaction kinetics, free	agronomy, ecology of soil, soil erosion, the soils of the world and their management 1950 July p 30
radicals, spectroscopy, color centers, high speed chemistry 1960 May p 134-145	cherry picker, mechanical harvesting, cotton picker, agricultural
nuclear reaction, hot-atom chemistry, hydrogen, chemistry at high	technology, tomato harvester, hay cuber, grain combine
velocity 1966 Jan p 82–90	1967 Aug p 50
chemical kinetics, allosteric enzymes, proton transfer, enzymes,	chess, see computer chess
catalysis, chemical equilibrium, relaxation methods in chemistry 1969 May p 30-41	chest X-rays, greater hazard than TB 1958 Jan p chick-embryo culture, virus, herpes simplex, symbiosis
catalysis, industrial processes, petroleum cracking 1971 Dec p 46-58	1949 Nov p 50
computer modeling, oscillating reagents, rotating chemical reactions,	influenza virus, immunization, hemagglutination, genetic variation,
non-linear reactions 1974 June p 62-93	vaccine, difficulty in securing flu immunization 1953 Apr p 27-
carbenes, carbon chemistry, molecular orbitals, reactive intermediates	rickettsiae, typhus, Rocky Mountain spotted fever 1955 Jan p 74-
19/6 Feb p 101-113	chicken, social behavior, pecking order, sexuality and dominance 1956 Feb p 42-46 [4]
cement, high-alumina cement, Portland cement, cement hardening and strength 1977 July p 82–90 [370]	animal behavior, incubator birds, eggs, fowl, ornithology, hatching eg
chemical senses, olfaction, taste, chemoreceptor	
chemical conces, offaction, taste, chemorecopior	in hot places 1939 Aug p 32
1952 Mar p 28–32 [404]	agricultural technology, poultry production, food production, animal
1952 Mar p 20-52 [404]	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-4
silkworm, olfaction, taste, insect chemoreception, comparative	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-4 hone, calcium metabolism, eggshell, calcite, mobilization of calcium
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 physiology netal ions, sequestering, ring compounds,	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-6 bone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117]
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97-106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-6 bone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken now, heroes zoster immune globulin 1969 Aug p 5
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning 1953 June p 68–76	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-tone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106].
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97-106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote 1953 June p 68-76 gas chromatography, sensitivity and application 1961 Oct p 58-67 [276]	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-tone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts
silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote 1953 June p 68–76 gas chromatography, sensitivity and application 1961 Oct p 58–67 [276]	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-tone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [426]
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silkworm, olfaction, taste, insect chemoreception, comparative physiology chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote gas chromatography, sensitivity and application 1961 Oct p 58-67 [276] chemical topology, catenane, topological isomer, cyclic molecules, molecular structure, ring molecules, linking and knotting of ring 1962 Nov p 94-102 [286]	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-tone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p 5 child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [420] Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5 adolescence, growth, menarche, earlier maturation of children in
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silkworm, olfaction, taste, insect chemoreception, comparative physiology 1958 Apr p 97–106 chemical separation, chelation, metal ions, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote 1953 June p 68–76 gas chromatography, sensitivity and application 1961 Oct p 58–67 [276] chemical topology, catenane, topological isomer, cyclic molecules, molecular structure, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] chemical weapons, bacteria, biological weapons, Vietnam war, arms race, CS gas, virus disease, rickettsiae, tear gas, herbicide, chemical-biological warfare chemistry, chemical bond, molecular structure, crystal structure, protein structure, chemical kinetics, science, chemistry 1900-1950 1950 Sept p 32–35 plutonium, ultra-microchemistry, embryonic development, cytology,	agricultural technology, poultry production, food production, animal husbandry, eggs, U S chicken factories 1966 July p 56-1 bone, calcium metabolism, eggshell, calcite, mobilization of calcium from bone 1970 Mar p 88-95 [117] chicken pox, herpes zoster immune globulin 1969 Aug p child development, growth rate, Denver longitudinal study, changes in proportion 1953 Oct p 65-76 [106] mathematical concepts, how children form mathematical concepts 1953 Nov p 74-79 [42] Lorentz transformation, Einstein, relativity, child's view of reality 1957 Mar p 46-5 adolescence, growth, menarche, earlier maturation of children in industrial countries 1968 Jan p 21-2 behavior, self esteem, personality 1968 Feb p 96-106 [511 personality, parental care, infant behavior, temperament, interaction of temperament and environment, nature nurture 1970 Aug p 102-109 [529] social discrimination, discrimination, group behavior, 'in vs out' group discrimination 1970 Nov p 96-102 [530]
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cardinal numbers, mathematics education, mathematics history,	chloromy cetin, anemia side-effect 1952 Sept p 72
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adolescence, medical care, growth hormone, 'bone age', menarche, heredity vs environment 1973 Sept p 34-43	1948 Aug p 24-35
behavioral regression, cognitive development, human behavior, infant	leaf color, anthocyanins, carotene, primary synthesis of aromatic
perceptions, learning 1976 Nov p 38-47 [572]	compounds 1950 Oct p 40-43
communication, language, social speech 1977 Feb p 100–105 [576] 24-year longitudinal study 1952 Sept p 76	carotenoids, chloroplast, photosynthesis, biology of pigments 1956 Jan p 80-86
24-year longitudinal study Japanese children taller 1952 Sept p 76 1958 Aug p 52	tetrapyrrole ring, hemoglobin, cytochrome, respiration, enzymes,
study in Great Britain 1973 Oct p 50	tetrapyrrole virtuosity 1958 Aug p 77–81
child health care, infectious disease, national health insurance, medical	photosynthesis, carotene, retinene, vision, photobiology, phototropism, bioluminescence, sunlight, life and light 1959 Oct p 92–108
care, acute illness, chronic illness, delivery of medical care 1973 Apr p 13-17	ATP, photosynthesis, chloroplast, primary capture of light energy in
child psychiatry, autism, schizophrenia, psychoanalysis, emotional	photosynthesis 1960 Nov p 104–118
deprivation, 'mechanical boy' 1959 Mar p 116–127 [439]	photosynthesis, chloroplast, electron transfer, ATP, cytochrome,
behavioral psychology, autism, emotional illness, schizophrenia 1967 Mar p 78–86 [505]	pigments, role of chlorophyll in photosynthesis, 1965 July p 74–83 [1016]
child psychology, vision, eidetic images, perceptual memory,	fossil record, organic molecules, sedimentary rock, gas
'photographic' memory 1969 Apr p 36–44 [522]	chromatography, hydrocarbons, 'chemical fossils'
birth order effect 1957 May p 70 include or discipline 1958 May p 60	1967 Jan p 32-43 [308] vision, photosynthesis, photoperiodicity, visual pigments,
indulge or discipline 1958 May p 60 child welfare, social indicators, state of the child, New York City	phytochrome, retina cells, plant growth, light and living matter
1976 July p 65	1968 Sept p 174-186
children's humor, develops according to plan 1951 Nov p 34	chloroplast, photosynthesis, photochemistry, electron transport, mechanism of photosynthesis 1969 Dec p 58–70 [1163]
chilling test, common cold, virus disease, human subjects, Salisbury, England, study 1951 Feb p 39-45	chloroplast, electron transfer, photosynthesis, light absorption
chimera, chromosomal anomalies, genetic mosaic, gynandromorphism,	1974 Dec p 68-82 [1310]
organisms with tissue cells of different genes 1960 May p 118-130	in puffery vogue 1953 Feb p 39
chimney swift, life cycle, natural history 1954 July p 60–64 chimpanzee, primate biology, Yerkes Laboratories 1955 Feb p 67–75	chloroplast, cytoplasmic inhentance, reciprocal crossing, maternal inhentance, sex linked traits, non-Mendelian inheritance, male
primate behavior, social behavior, tool-using, comparative psychology,	sterility, paramecium, plastids, cytogene, review of evidence for an
observation of chimpanzees in the wild 1962 May p 128-138 [463]	extra-chromosomal genetics 1950 Nov p 30–39 [39] photosynthesis, grana, Hill reaction 1953 Nov p 80–84
symbolic language, learning, operant conditioning, binary numbers, animal behavior, chimpanzee learning arithmatic	photosynthesis, grana, Hill reaction 1953 Nov p 80–84 carotenoids, photosynthesis, chlorophyll, biology of pigments
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food sharing, hunting, carnivorous chimpanizees, omnivorous	ATP, photosynthesis, chlorophyll, primary capture of light energy in
chimpanzees, feeding behavior, Gombe National Park, Tanzania 1973 Jan p 32–42 [382]	photosynthesis 1960 Nov p 104–118 ATP, mitochondrion, photosynthesis, cell metabolism, glucogenesis,
chimpanzee infant in human family 1951 July p 32	citric acid cycle, glycolysis, oxidative phosphorylation, cytology,
toolmaking 1964 July p 48	cellular transformation of energy 1961 Sept p 62-73 [91]
chimpanzee learning, ape language, animal communication, Sara learns grammar to 'read' 1972 Oct p 92-99 [549]	algae, photosynthesis, oxidative phosphorylation, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122]
V ₁ k ₁ 's progress 1954 Feb p 48	cytoplasmic inheritance, maternal inheritance, extranuclear DNA.
sign-language training 1969 Jan p 50	mitochondria, Chlamydomonas 1965 Jan p 70-79 [1002]
Sarah learning language 1971 July p 44 China, economic development, rice, hybrid wheat, agricultural	chlorophyll, photosynthesis, electron transfer, ATP, cytochrome, pigments, role of chlorophyll in photosynthesis,
technology, hybrid rice, irrigation, livestock 1975 June p 13-21	1965 July p 74-83 [1016]
chinampa, canals, drainage, Mexican agriculture, agricultural system,	photosynthesis, photochemistry, electron transport, chlorophyll,
Aztec civilization, highly productive farm plots, Aztec empire 1964 July p 90-98 [648]	mechanism of photosynthesis 1969 Dec p 58-70 [1163] oxygen cycle, photosynthesis, biosphere, aerobic metabolism, ozone,
Chinese dialects, Chinese language, Chinese writing, tones, computer	oxidation-reduction reactions, geological record, oxygen-carbon
translation, Mandarin Chinese 1973 Feb p 50-60 Chinese industry, technology, economic development, progress of	balance 1970 Sept p 110-123 [1192]
People's Republic of China in computer electronics, instrumentation	mutochondria, symbiosis, cell organelle, DNA, prokar) ote origin, protein synthesis, plastids, cell evolution, extra-nuclear genetic
and control technologies 1972 Dec p 13-17	activity in cell 1970 Nov p. 22–29 [12031
Chinese language, computer translation, pattern recognition, experiment in machine translation 1963 June p 124-135	cell evolution, cell organelle, endosymbiosis, eukaryotic cells.
Chinese writing, tones computer translation, Mandarin Chinese,	mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella, plastids 1971 Aug p 48-57 [1230]
Chinese dialects 1973 Feb p 50–60	chlorophyll, electron transfer, photosynthesis, light absorption
Chinese remainder theory, computability theory, Diophantine equations, Hilbert program, mathematics 1973 Nov p 84-91	1974 Dec p 68-82 [1310]
Chinese starcharts, supernovae, Tycho's supernova, Kepler's supernova,	ATP, oxidative phosphorylation, cell membrane, active transport, mitochondrion, formation of the energy-exchange molecule in the
'guest stars', the seven observed supernovae 1976 June p 100-107 Chinese writing, Chinese language, tones, computer translation,	cell 1978 Mar n 104_123 [1392]
Mandarin Chinese, Chinese dialects 1973 Feb p 50-60	semiconducting solar battery 1957 Apr p 72
Chingis Khan, cavalry, Mongol conquests, war, frontier history, nomatic	plastid DNA 1962 Mar p 74 chlorpromazine, psychoactive drugs, tranquilizers, reserpine, Frenquel
civilization, Chingis Khan, biography 1963 Aug p 54-68 Chladni patterns, bass cello, viola, violin music, musical instruments,	1955 Oct p 80-86
physics of violins 1962 Nov. p. 78_93	cholera, disease, plague, yellow fever, epidemiology 1953 Feb p 22-27 bacterial toxin disease, medical care, sanitation, water supply.
Chiamy domonas, cytoplasmic inheritance, maternal inheritance,	epidemiology 1071 Aug = 16 31
extranuclear DNA mitochondria, chloroplast 1965 Jan p 70-79 [1002]	endesterie, liquid crystals, soap bubbles, smeetic, nematic
chloramphenicol, antibiotics, penicillin, streptomycin, aureomycin,	cholesterol, steroid hormones vitamin D, sex hormones cortisone
infectious disease, the antibiotic revolution 1952 Apr p 49-57 chlorella, algae, food production 1953 Oct p 31-35	1055 1 62 (0.50)
chlorocruorin, hemoglobin hemocyanin blood pigments	atticio cicio di caldio ascular disease human nutrition neterna
1950 Mar p 20–22	epidemiology, coronary occlusion, diet, lipids plaque, arteri wall
	1966 Aug p 48–56

diet and heart disease hypothesis 1956 Feb p 5	6 DNA DNA
the hypothesis the hypothesis 1956 Apr. p. 6	, Brother protein synthesis, polymers, molecular
the hypothesis 1961 Feb p 7	
the hypothesis 1969 Sept p 9	
the hypothesis questioned 1977 Dec. 20	c
chondrites, extraterrestrial life, meteorites, pangenesis, organic molecules	
organic molecules in carbonaceous chondrites 1963 Mar. p. 43-49	n de la
chondrule, primordial dust cloud, solar system, shock waves, genesis of	1701 3001 1) 14-02 19.
the solar system 1963 Oct p 64-8;	mitotic apparatus, cytology, meiosis, mitosis, mechanism of cell
element formation, planets, solar system chemistry, space exploration,	
stellar evolution 1974 Mar p 50-65	DNA, gene mapping, bacteriophage, mapping genes by induced and
carbonaceous chondrites, meteorites, solar system, primordial dust	
cloud 1975 Feb p 30-38	Barr body, sex differences, genetic mosaic, cytology, Klinefelter's
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hypersthene meteorites' origin 1964 July p 46 chondrule, oldest solar system rock 1963 Mar p 72-74	
chondrites, primordial dust cloud, solar system, shock waves, genesis of	
the solar system 1963 Oct p 64-82	***************************************
chordates, salpa, marine biology, natural history 1961 Jan p 150–160	
chorinated hydrocarbons, calcium metabolism, eggshell thinning.	
pollution, DDT, dieldrin, avian reproduction, insecticide, food	histone in genetic expression 1962 Sept p 106
chain, ecological effect of pesticides 1970 Apr p 72–78 [1174]	chromosome breakage, radiation damage, ionizing radiation, mutation,
Christianity, cargo cult, religion, cultural anthropology, Melanesian cargo	, , , , , , , , , , , , , , , , , , , ,
cult 1959 May p 117–125	autolysis, lysosomes, enzymes, phagocytosis, lysis, lysosome
Christmas cards, sociology of exchange 1971 Mar p 48	
chromatic saturation, color perception, surface colors, hue	
1975 Aug p 62-75 [565]	'cataclysmic evolution' 1951 Apr p 54-59 wheat, einkorn, wild einkorn, emmer, hybrid cells, fungi, plant
chromatid, chromosome replication, DNA replication, double helix,	breeding, origin and perfection of wheat 1953 July p 50-59
micromechanics of reproduction 1958 June p 36-42 [60]	chromosome mapping, Mendel's laws, mutation, science history, the gene
chromatin, leukocyte, nucleus, DNA, Miescher, spermatozoon nucleus,	on the eve of the resolution of the genetic code
hereditary material, discovery of DNA 1968 June p 78-88 [1109]	1956 Oct p 78–90 [17]
cell nucleus, chromosomal proteins, DNA, gene regulation, histones,	cancer, SV40 virus, gene transformation, tissue culture, somatic cells,
nucleoproteins, oxidative phosphorylation	hybrid cells, genetics of human cancer 1978 Feb p 117-125 [1381]
1975 Feb p 46-57 [1315]	chromosome puffs, DNA, insect chromosome, RNA synthesis, hormonal
DNA packaging 1977 Nov p 72	induction, gene regulation 1964 Apr p 50-58 [180]
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separation 1951 Mar p 35-41	micromechanics of reproduction 1958 June p 36-42 [60]
process control, automatic control, control systems, predictive control	mitosis, mitotic spindle, cell reproduction cell membrane, cell life cycle
1969 June p 112–120	1974 Jan p 54-64 [1288]
gas chromatography 1953 Sept p 82	chromosome structure, chemical dissection 1954 Sept p 80
cellulose column 1958 Aug p 50	chromosphere, Sun, solar eclipse, ionosphere, solar flares, ultraviolet
cellulose chromatography 1958 Aug p 50	radiation, Earth-Sun chromosphere-ionosphere interaction
chromatophores, hyla, chameleon, catfish, skin color, how animals change	1962 Feb p 50-59
color 1952 Mar p 64-67	magnetic field, solar magnetism, Sun cycle, photosphere, solar atmosphere, 11-year solar cycle explained 1966 Nov p 54-62
chromosomal anomalies, gene mutation, lethal heredity	
1952 July p 58–61	corona, eclipse phenomena, photosphere, solar corona, Sun 1973 Oct p 68-79
genetic mosaic, gynandromorphism, chimera, organisms with tissue cells of different genes 1960 May p 118–130	chronic illness, infectious disease, national health insurance, medical care
cells of different genes 1960 May p 118-130 Down's syndrome, Klinefelter's syndrome, trisomy 21, genetic defect,	child health care, acute illness, delivery of medical care
meiosis, mitosis, gene translocation, nondisjunction, afflictions	1973 Apr p 13-17
associated with abnormal chromosome complement	morbidity, mortality rates, medical care, vital statistics, life expectancy
1961 Nov p 66–76 [150]	infectious disease, degenerative diseases, causes of death
Parr body sex differences, chromosome, genetic mosaic, cytology,	1973 Sept p 76-84
Klinefelter's syndrome, Turner's syndrome, sex differences in tissue	chronic myloid leukemia, No 21 or 22 chromosome implicated
cells 1963 July p 34-62 [161]	1961 Mar p 88
pattern recognition, computer analysis, computer graphics, computer	Chubb crater, fossil crater, meteoritic impact, cratering astroblemes
reasonation and classification of chromosomes	1951 May p 64-69 11701 meteorite fragments 1951 Oct p 34
1966 Apr p 40-46 [1040]	iron meteorite fragments 1951 Oct p 34 chymotrypsin, catalytic proteins, enzyme action, protein-cutting enzymes
embryonic development, oocytogenesis, meiosis, mitosis, mammahan	proteolytic enzymes, serum proteins, elastase, trypsin
eggs ovum, in vitro fertilization 1900 Aug p 72-01 [1047]	1974 July p 74-88 [1301]
	cichlid fish, marine iguana, rattlesnake, fighting behavior animal
chromosome, gene mapping, genetic disease, autosomes 1971 Apr p 104-113 [1220]	behavior, comparative psychology, oryx 1961 Dec p 112–122 [470]
deficiency genetic disease, prenatal genetic	cigarette smoking, carcinogenesis tobacco, human physiology, lung
	cancer, coronary disease, effects of smoking 1962 July p 39-51
1711 1:01 P = : 1 1	implicated in lung cancer 1950 July p 29
1964 June p 59	implicated in deaths 1954 Aug p 37
	cancer no inhibition 1955 May p 58 public smoking bans 1956 Sept p 118
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histones, nucleoproteins, oxidative phosphorylation	cancer 1964 Feb p 60 coronary disease 1965 Dec p 40
	mortality rates 1966 Apr p 48
chromosome, mutation, evolutionary diversity, science, genetics 1900-	emphysema in dogs 1966 Aug p 42
1950, one gene-one enzyme	coronary disease 1967 Oct p 48
haradity DNA RNA, nucleoproteins, protein syntax Feb. 27, 57 1781	decline in U S 1968 Apr p 44
	first decline in consumption 1969 May p 52 decline in US 1969 May p 52
mitotic spindle, sea urching egg, digitonin, centroles 1953 Aug p 53-63	1970 Cant n 97
	women 1970 Sept p 82

life expectancy	1970 Oct p 53	air pollution, climate, heat emission, heat pollution, microclimate, infrared photography, heat island, climate of cities
cardiac disease and CO cilia, flagella, cytology, structure and function	1974 Mar p 46	1967 Aug p 15–23 [1215]
actinomyosin, cyclosis, muscle contraction,	flagella, cytology,	urban transport, computer modeling, personal-transit systems, systems
cytoplasmic streaming, actin, myosin, und	ierlying unity of cellular	analysis, mass transit 1969 July p 19–27
motion	1961 Sept p 184-204 [97]	American Negroes 1970 Apr p 46
ATP, axoneme, cell motility, flagella, microt		citric-acid cycle, enzymes, co-enzymes 1949 Sept p 48–50 [15]
paramecium, sperm	1974 Oct p 44–52 [1304]	biochemistry, enzymes, virus, metabolism, co-enzymes, sulfa drugs, antibiotics, science, biochemistry 1900-1950 1950 Sept p 62-68
cipher, cryptology, code, polyalphabetic syster and technology of making and breaking c		ATP, muscle contraction, fermentation, energy transformation
and technology of making and oreasang o	1966 July p 38-46	1953 Apr p 85–92
circadian rhythm, biological clock, fiddler crab	1954 Apr p 34–37	ATP, mitochondrion, cell metabolism, mitochondrion as site of
filariasis, parasitism, elephantiasis, tropical	disease	biological oxidation 1958 July p 56–62
	1958 July p 94–101	acetylcholine, acetylcholinesterase, nerve gases, nerve poisons, alkaloids, toxins, lethal mechanisms at cellular level
Annelida, feather duster worm, lugworm, br	1959 June p 132–142	1959 Nov p 76–84
basal metabolism, hibernation, homeothern		cytology, energy transformation, ATP, mitochondrion, glycolysis,
circannual rhythm, hypothalamus, squirr		oxidative phosphorylation, membrane, energy transformation in the
	1968 Mar p 110-118 [513]	cell 1960 May p 102–114
animal behavior, biological clock, circannua		ATP, chloroplast, mitochondrion, photosynthesis, cell metabolism,
animal migration, manic depression biological clock, house sparrow, photoperio	1971 Apr p 72–79 [1219]	glucogenesis, glycolysis, oxidative phosphorylation, cytology, cellular transformation of energy 1961 Sept p 62–73 [91]
nonvisual light receptors	1972 Mar p 22–29 [1243]	city as quarry, Classical archeology, Minturna, slow death of a city
biological clock, diapause, dormancy, insec		1954 July p 66–70
metabolism, photoperiodicity	1976 Feb p 114-121 [1335]	city trees, pollution effects, tree cloning, ailanthus, ginkgo, London plane,
daily fluctuation as effect of X-radiation	1963 Mar p 78	Norway maple 1976 Nov p 110–118 Ciudad Guyana, urban planning, cities, land ownership, economic
circannual rhythm, basal metabolism, hiberna circadian rhythm, feeding behavior, hypo	othalamus squirrels	geography, highway engineering, a model city in Venezuela
dormice in hibernation	1968 Mar p 110–118 [513]	1965 Sept p 122–132
anımal behavior, biological clock, cırcadiar		civil defense, fallout shelters, arms race, social psychology, counterforce
animal migration, manic depression	1971 Apr p 72–79 [1219]	strategy, social impact of fallout shelters 1962 May p 46-51 [637]
circle-grid analysis, crystal structure, metal structure	amping, sheet-metal	arms race, fallout, limited nuclear warfare, technology assessment, flexible-response strategy, limited nuclear war 1976 Nov p 27-37
production, strain hardening, metal structircuit breakers, electric power, high-voltage	current, plasma arcs	Congressional hearings 1950 Jan p 26
	1971 Jan p 76-84	Congressional hearings 1950 May p 26
circular error probability, see CEP	_	counterforce strategy, civil defense revived 1976 Oct p 57
circulation of the atmosphere, see atmospher		civil rights, racial discrimination, Amerindian, genocide, cultural
circulation of the oceans, see ocean circulation circulatory disorders, medical diagnosis, there		assimilation, persisting identity of Amerindians 1960 Feb p 37-45 class discrimination, Harijans, untouchables, caste, Hinduism, India
skin temperature	1967 Feb p 94–102	1965 Dec p 13–17
circulatory system, thermoregulation, cold ad		communication, freedom of expression, US First Amendment
insulation	1966 Jan p 94–101 [1032]	1972 Sept p 163–172 [680]
circumcision, questioned cities, urban density, form of cities	1970 Nov p 45 1954 Apr p 54-63	for mentally ill 1950 Nov p 26 civil rights movement, crime incidence reduced 1965 May p 48
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metropolitan segregation	1957 Oct p 33-41	weapon' says P M S Blackett 1949 Mar D 19
social evolution, social behavior, human ev		civilization, genetic adaptation, human evolution, natural selection,
1500 B C origin of cities Industrial Revolution, urbanization, popul	1960 Sept p 153–168 [606]	culture, human evolution in man-made environment
to a single-topic issue on cities	1965 Sept p 40-53 [659]	clams, bivalves, marine life, mollusks, symbiosis 1975 Apr p 96–105
urbanization, Industrial Revolution, agric	ultural revolution,	ciap-lling mechanism, aerodynamics, animal behavior, bird flight, insect
communication, origin and evolution of housing, urban planning central city, sub-		flight, flip mechanism, hovering flight, lift generation
conurbation, evolution of the metropoli		1975 Nov p 80-87 [1331] clarinet, musical instruments, vibrating air column, oboe, flute, bassoon,
shantytowns, Calcutta, urbanization, caste	e, housing, poverty, traffic,	English horn, saxophone, physics of the wood winds
Calcutta, a city of the poor	1965 Sept p 90-102	1960 Oct p 144_154
land use, urban planning, Stockholm, land Stockholm as a planned city	ownership, urban renewal, 1965 Sept p 106-115	class discrimination, Harijans, untouchables, caste, Hinduism, India, civil
urban planning, Ciudad Guyana, land ow		rights 1965 Dec p 13–17 class distinctions, in funerals 1950 Nov. p. 28
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Northeast Corridor, regional planning		commerce, underwater archeology, Roman empire, amphora
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government regulation urban planning		Schliemann continues 1954 Dec. p. 73, 79
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transportation	1965 Sept. p. 162-174	Antikythera planetary motion Greek computer, ancient instruments, science history, computer technology, 2,000-year-old computer
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	1965 Sept p. 178, 100	protection castle, nuraghi, building construction, 1000 BC
urban renewal, slums housing, relocation	eminent domain urban	proto-castics in partiting
planning US experience with Federal	l subsidy of urban renewal	Bronze Age, burial site, Greek colony, Bahrain, Sumerian-Indian culture link
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Brauron, Greek civilization, 500 B C temple 1963 June p 110-120) atmacellus and
Greek civilization, Cumae, Italy, 8th c B C Greek colony first in Italy	Process Chemical Controls effect
1963 Dec. n. 10812:	glaciation since Ice Age, mountain glaciers, sea-ice fluctuations, glacier
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Carthage, Roman colony, archeological 'rescue' campaign	wind, solar radiation, energy cycle, biosphere, albedo, atmosphere
1978 Jan p. 110-120 1704	circulation, ocean circulation, terrestrial radiation, carbon dioxide
burial mounds at Marathon 1970 July n 52	'window', Earth energy cycle 1970 Sept p 54-63 [1189] air pollution, atmospheric circulation, carbon dioxide 'window',
tall of Alinoa a collapse 1976 Apr. p. 56	particulates, ozone, temperature of Farth, human actuaty and
Bronze Age bull-leaping 1976 Aug p 44D	' climatic change 1971 Jan p. 32-42 [894]
Classical physics, Aristotle, appraisal of a physicist of more ancient fame than Newton 1950 May p. 48-51	dendrochronology, radiocarbon dating 1972 May p 92-100 [1250]
than Newton 1950 May p 48-51 field theory, high-energy physics, quantum fields, elementary particles,	C Desiration of Dioles (Ool)
with 20 particles known, a review of the theoretical foundations of	1976 Feb p 88-99 cultural evolution, hunter-gatherer societies, Nile prehistory,
physics 1953 Apr p 57-64 [208]	Paleolithic settlements, stone tools 1976 Aug. p. 30-38
classified research, stops at M.I T 1969 June p 54	carbon 14 abundance, ice ages, Maunder minimum, solar physics,
resumes at M I T. 1969 July p 50 halted at Columbia and Stanford 1970 Mar p 58	sunspots, dendrochronology 1977 May p 80-92 [925]
halted at Columbia and Stanford 1970 Mar p 58 Project Camelot 1971 May p 45	
'counter-insurgency research' in Thailand 1972 Jan p 47	humus, 'greenhouse effect', threat of 'greenhouse effect' 1978 Jan p 34-43 [1376]
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1973 Jan p 44	1949 Nov p 29
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chathrates, inclusion compounds, crystallography, gas hydrates, inclusion compounds in biology and technology 1962 July p 82-92 [280]	oxygen isotopes, temperature measurement, foraminifera, abyssal
clay, quick clay, landshde, formation and properties of quick clay	sediments, paleontology, glaciation, measurement of ancient temperatures 1958 Feb p 54-63
1963 Nov p 132-142	glaciation, solar radiation, solar evolution and terrestrial climate
clay figurines, Macedonia, Nea Nikomedeia, Neolithic village, domestic	1958 June p 85-92 [835]
animals, agricultural society, oldest Neolithic site in Europe	algae, coral, coral rings, fossil reefs, paleontology, dating by coral rings
1965 Apr p 82-92 Clean Air Act, air pollution, emission standards, Environmental	1966 Oct p 26-33 [871]
Protection Agency 1973 June p 14-21	water erosion, rivers, drainage patterns, river evolution 1967 Apr. p. 84-94
cleaning behavior, ecological niche, symbiosis, reef ecology, animal	coral reefs, energy cycle, fossil reefs, marine ecosystems, reef evolution
behavior, behavioral integration of reef ecology	1972 June p 54-65 [901]
1961 Aug p 42–49 [135]	climatology, Antarctica, solar radiation, atmospheric circulation, albedo, Antarctica in Earth's heat budget 1962 Sept p 84-94 [859]
cleft palate, congenital anomalies, fetal injury, embryonic development, teratogenesis, rubella, teratology 1957 Oct p 109-116	climax ecosystem, forestry, spruce, balsam, birch, climax forest of
'client-centered' therapy, psychotherapy 1952 Nov p 66-74 [448]	Northeast US 1948 Nov p 20-23
Clifford, mathematics, science history, life and work of William Kingdon	solar radiation, photosynthesis, biosphere, agricultural ecosystem,
Clifford 1953 Feb p 78–84	energy cycle, ecosystem, food chain, respiration, biosphere energy cycle 1970 Sept p 64-74 [1190]
climate, cloud seeding, weather control, does control of weather constitute a climatic hazard? 1950 Apr p 48-52	clock paradox, artificial satellite, relativity theory, Mercury, stellar shift,
volcanoes, dust, solar radiation, world climate and volcanic activity	electromagnetic frequency shift, perihelion shift, general relativity,
1952 Apr p 74-80 [843]	testing Einstein's general theory of relativity 1959 May p 149-160 Pythagorean theorem time, special relativity 1963 Feb p 134-144
Mars, polar cap, desert, atmosphere, 'canals', picture from Earth- bound study 1953 May p 65-73	Pythagorean theorem time, special relativity 1963 Feb p 134-144 long-lived mesons 1957 Mar p 63
bound study 1953 May p 65-73 trade wind clouds, atmospheric circulation, cumulus clouds, ocean-	special relativity demonstrated with help of Mossbauer effect
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Farth placiation, Antarctic glacier, sea level, hydrologic cycle	clone, cancer, tissue culture, drug research, somatic cells, technique and uses of tissue culture 1956 Oct p 50-55
1955 Sept p 84-92 [809] weather, solar wind, ionosphere, meteorology, coronametry, Earth's	HeLa cancer cells, cell culture, somatic cells, tissue culture, single
weather and solar wind 1957 Apr p 138~148 [849]	human cells 1957 Aug n 91-100 [33]
plant growth, greenhouse, agronomy, photoperiodicity, day-night	cell diffe
temperature, 'phytotron', environment simulator 1957 June p 82-94	embr ovum, cytology, how cells specialize 1961 Sept p 124-140
ocean circulation, abyss, currents in the abyss 1958 July p 85–90	tissue culture, meiosis, mitosis, plant cell differentiation, generation of
marchland events ecology, entrophication, wetlands, natural history	whole organism from tissue cell (carrot) 1963 Oct p 104-113
of march effect on climate 1938 UCL D 114-122 [040]	muscle tissue, embryonic cells, cell differentiation, cell culture, origin of muscle in embryonic development 1964 Aug p 61-66
carbon dioxide 'window', meteorology, air pollution, fossil fuel, threat	cell differentiation, nucleus transplantation, genetic engineering
of greenhouse creek	somatic cell nucleus, gene complement, frog embryo gene regulation
matagralagy salar narricle minucipe on Larm annospirate	1968 Dec p 24–35 [1128] Protato plants from tissue cell 1978 June p 83
	potato plants from tissue cell 1978 June p 83 closed cycle, cryogenic technology, Stirling cycle, refrigeration hot-air
anthropology, human evolution, steatopygia, human migration, race, population, genetic variation, ancient migration and human diversity	engine displacer 1965 Apr p 119-12/
	'closed' universe, cosmology, 'big bang' theory, 'open' universe universe expansion, deuterium abundance, age of elements, average density
building construction, architecture, primitive architecture, igloo,	1976 Mar p 62–79
teepee, yurt, tent, sod hut, adobe house, hogan, stilt house	clothing, insulation, objective, physical standards for 'warm'
grape fermentation, wine, yeast, viticulture, enzymes, chemical	1951 Mar p 56-60 behavioral adaptation homeothermy, clothing and body-temperature
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	cloud, meteorology, wind, lee waves, soaring glider, esthetic exploitation
Peru Current, Inca civilization, New World archeology, 1965 Oct p 68-76	of lee waves 1961 Mar p 124-134 upper atmosphere, mesopause meteoritic dust, condensation nuclei.
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cloud chamber, bubble chamber, liquid hydrogen, superheated fluid	
1055 Feb n 46_5017161	coal technology, technology history, Industrial Revolution iron smelting, blast furnace, Newcomen engine 1974 Aug p 92–97
spark chamber, particle accelerator, bubble chamber, particle tracks	fossil fuel, technology history, Industrial Revolution, 16th c energy
1962 Aug p 36–43	crisis, wood-fuel shortage 1977 Nov p 140–151 [391]
cloud chamber design, build your own! 1951 Jan p 29	technology assessment, coal-slurry pipelines 1978 Mar p 70
cloud physics, meteorology, condensation nuclei, ocean foam, salt	Coanda effect, fluid dynamics, amplifiers, switching, logic gates
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variations on a theme 1973 Jan p 100–107	nozzles, burners, nature and applications of Coanda effect 1966 June p 84-92
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constitute a climatic hazard? 1950 Apr p 48-52 weather control, silver iodide, Project Cirrus, condensation nuclei, dry	transmission, dielectric mirrors, laser, interferometry
1052 1 17 21	1970 Dec p 58–75
water cycle, air pollution, water drop, ice crystals, fog, inversion layer.	coaxial cable, carrier-wave modulation, communication technology,
smog 1968 Dec p 74–82 [876]	electromagnetic spectrum, fiber optics, radiowave, communication
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need for planning 1954 Feb p 46	cobalt, magnetism, magnetic domains, iron, ferrites 1955 Jan p 68–73
effective rainmaking 1957 July p 64	trace elements, desert ecology, land reclamation, vitamin B12 synthesis,
cloud structures, radar, weather observation 1953 July p 34–38	agncultural technology, reclamation of infertile Austrialian land 1959 Jan p 97-106
Clouds of Magellan, galactic center, nebulae, globular cluster stars,	cobalt-rare earth alloys, magnetism, permanent magnets, magnetic
Southern sky, Eta Carina, astronomical riches of the southern sky 1952 July p 46-57	domains, anisotropy, Alnico 1970 Dec p 92–100
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yardstick, doubling of yardstick doubles size and age of the universe	neuropharmacology, pharmacology, psychiatry, research in pain
1953 June p 56–66	suppression 1957 Jan p 70–82
spiral galaxies, radio astronomy, galactic structure, resolution of	alkaloids, plant physiology, morphine, strychnine, 'hemlock',
structure of nearest galaxies 1956 Apr p 52-58	physostigmine, caffeine, contine, quinine, ricinine, LSD, human
galaxy, stellar evolution, ultraviolet radiation 1964 Jan p 32-41	toxins in plant physiology 1959 July p 113–121 [1087]
radio source outside Earth's galaxy 1963 Oct p 59	drug addiction, addiction fashionable 1977 Nov p 75
supernova remnants 1976 June p 49	coccidioidomy cosis, histoplasmosis, fungal infection, respiratory infection, airborne infection, epidemiology 1948 June p 12–15
'cloudy crystal ball', atomic nucleus, nuclear structure, neutron cross sections, 'model atom' 1955 Dec p 84-91	Cochise culture, New World archeology, Folsom man, stone tools
sections, 'model atom' Clovis culture, hunting, mammoth-bone deposits, Folsom points, New	1951 Feb p 15–19
World archeology, elephant extinction 1966 June p 104–112	New World archeology, Pine Lawn Valley, Mogollon culture, 2500
mammoth-bone shaft wrench 1968 Mar p 54	B C to 1300 A D in New Mexico 1951 July p 46-51
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reading machines 1971 Apr p 56–71	attention mechanism, speech perception, hearing, phonetics,
co-enzymes, enzymes, citric-acid cycle 1949 Sept p 48–50 [15] biochemistry, enzymes, virus, citric-acid cycle, metabolism, sulfa drugs,	neuropsychology, hearing two messages at a time 1962 Apr p 143–151 [467]
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	behavior, cocoon record of silkworm spinning movements
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	1956 Apr p 131–140 code, cryptology, polyalphabetic systems, rotor machine, cipher, history
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preperception 1962 Oct in 93, 102 (422)	colliding beam accelerator, cyclotron, synchrotron, high energy physic
concrent radiation, radar, microwaves, spectroscopy, molecular bonds	by the state of the parties of the accepta
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carrbou, rodent, moose, polar ecology, animal adaptation to Arctic	charm, quark, high-energy physics, storage rings, virtual particles
1960 Jan p 60-68	1975 June p 50-4
adipose tissue, hibernation, brown fat, thermoregulation, homeostasis,	color and illumination, color vision, reflection, 'retinex' theory, visual
metabolism, neonatal physiology, heat production in newborn	perception, visual pigments, 'color Mondrian' experiment
animals, including man 1965 Aug p 62-65 [1018]	1977 Dec p 108-128 [139
circulatory system, thermoregulation, fur, metabolism, insulation	color blindness, sex linked traits, dichromatism, physiology and psychology of a vision defect 1951 Mar p 48-5
1966 Jan p 94–101 [1032]	psychology of a vision defect 1951 Mar p 48-5 cone cells, fovea, genetic disease, retinal image-processing, visual
'cold-blooded' animals, behavioral adaptation, pigmentation, thermoregulation, lizard, reptile, behavioral thermoregulation	pigments 1975 Mar p 64-74 [131]
1959 Apr p 105-120	color centers, photolysis, photochemistry, chemical reaction, reaction
ectothermy, metabolism, heterothermy, insect flight, sphin's moths,	kinetics, free radicals, spectroscopy, high speed chemistry
temperature regulation, Mandura sexta warm-up mechanisms	1960 May p 134-14
1972 June p 70-77 [1252]	color discriminination, in cats 1964 June p 5
cold cathode, electron beam, current density, X-ray photography, field	color fusion, color scission, perceptual transparency, physical
emission 1964 Jan p 108–118	transparency, optical illusion, transparency, visual perception 1974 Apr p 90-98 [559
'cold light', bioluminescence, glow worm, firefly, abyssal fish, luciferase	
1948 May p 46-49	color holography, holography, laser, microscopy, white-light reconstruction 1968 Feb p 40-48
cold war, economic development, military expenditures, politics of aid, 'righ' nations 1972 Apr p 15-21	color perception, insect eve, compound eve, optical resolution, insect
'rich' nations, 'poor' nations 1972 Apr p 15-21 colicine, ATP, cell membrane, membrane energetics, active transport, E	behavior 1948 July p 42-45
coh 1975 Dec p 30–37 [1332]	vision form nercentian role of experience in visual perception
collicine-K action defined 1959 June p 81	1949 Aug p 52-55
collegen proteins heta chain, alpha helix, polypeptide synthesis,	eye, vision, retinal pigments, cone cells, trichromaticity implies three
polymers, amino acids, synthesis and architecture of proteins	cone pigments 1962 Nov p 120–132 [139]
1957 Sept p 1/3-184 [/]	surface colors, chromatic saturation, hue 1975 Aug p 62-75 [565] frog's blue preference 1963 Jan p 62
elastın, keratın, myosın, fıbrın, cell, polymers, polymers in living cells 1957 Sept p 204-216 [35]	frog's blue preference 1963 Jan p 62 cone cells of three kinds 1964 May p 60
1937 Sept p 204-210 [33]	color photography science history Marwell's color photograph first
proline, hydroxyproline, collagen fibril, tropocollagen, connective tissue, nature and properties of most abundant protein	three-color photograph 1961 Nov p 118-128
tissue, nature and properties of most abundant protein 1961 May p 120–130	emission nebulae interstellar gas, ionization, nebular luminosity
aging, tendons, biological age 1963 Apr p 104-114 [155]	1974 Oct p 34-45
Long mercelectricity osteogenesis, calcium metabolism, botte	from silver-halide emulsions 1951 Jan p 30
7	color scission, color fusion, perceptual transparency, physical transparency, optical illusion, transparency, visual perception
wound healing, regeneration, leukocyte, fibroblasts, epidermal cells	1974 Apr p 90–98 [559]
the same plants	color television, picture elements, line structure, field-scanning rate
elastin, fibroblasts, microfibrils 1971 June p 44–52 [1225] blood plasma, cell-surface antigens, glycoproteins, interferon, protein 1974 May p 78–86 [1295]	technology assessment, competing color television systems weighed
blood plasma, cell-surface antigens, grycoprostation 1974 May p 78–86 [1295]	1950 Dec p 13-17
molecule 1974 Nov p 49	compatability with black and white 1950 Oct p 25 hitigation continues 1951 July p 28
collagen-cutting enzyme, configents in disease collagen fibril, collagen, proline, hydroxyproline, tropocollagen, collagen fibril, collagen, proline, and properties of most abundant protein	httgation continues 1951 July p 28 designed by E O Lawrence 1951 Nov p 33
connective fissile. Baluic and proportion	hack to the laboratory 1951 Dec p 34
1066 1 61	enterstation Jearning conditioned behavior, behavioral psychology.
	Skinner box, visual discrimination pigeons conditioned to respond
collective-effect accelerators, electron-ring according 1972 Apr p 22-33	to discrete wavelengths of light 1958 Jan p. 77-82 [403]
accelerator, particle-storage rings	visual perception, 'long' and 'short' wavelengths in color perception 1959 May p 84-99 [223]
collector ions, flotation, nuneral separation, surface 1956 Dec p 99-110	1962 May p 62-72 [465]
beneficiation college graduates, intellectual resources of U.S., doctorates, test scores 1951 Sept. p. 42-46	visual nerception constancy effect, neutral colors
1951 Sept p 42-40	1963 Jan p 107-116 14741

afterimages, photochemistry, sensory discrimination, visual pigments,	infant speech, language, learning, meaningful consistencies in infant habble 1949 Sept p 22–24 [417]
photochemistry of color perception 1963 Oct p 84–93 [1089]	babble 1949 Sept p 22–24 [417] electronics, electron tubes, amplifiers, communication technology,
amphibian, frog, retina, retinal image-processing, visual perception, retinal processing of visual sensation 1964 Mar p 110–119	rectifiers, electron optics, cathode-ray tube, power, thermionic
retinal processing of visual sensation 1964 Mar p 110-119 retina, cone cells, pigments, ganglion cells, spectrophotometry, three-	emission state of the technology 1950 Oct p 30–39
color receptor system 1964 Dec p 48–56 [197]	leadership, social psychology, 'work patterns profiles', people in groups
color and illumination reflection, 'retinex' theory, visual perception,	1951 Feb p 26–28
visual pigments, 'color Mondrian' experiment	microwaves, optical properties, Maxwell's equations, traveling-wave
1977 Dec p 108–128 [1392]	tube, klystron, magnetron, waveguides, radar 1952 Aug p 43-51
light-pipe experiment 1961 Dec p 78	radio, frequency modulation, Armstrong, life and work of Edwin H
three pigments identified 1963 Dec p 68	Armstrong 1954 Apr p 64-69 human evolution, speech, language, origin of speech
blue at 450, green at 533, red at 590 millimicrons 1964 Nov p 56	1960 Sept p 88–96 [603]
rhodopsin mobility 1972 May p 50 1976 Feb p 57	honeybee, insect behavior, bee dances, honeybee sound communication
With Tod CCB3	1964 Apr p 116–124 [181]
Columbia Valley Authority, on TVA model 1949 Mar p 26 oma cluster, optical and radio red shift 1956 Oct p 66	cities, urbanization, Industrial Revolution, agricultural revolution,
ombat fatigue, ACTH, war, stress, psychiatry, Korean war studies of	origin and evolution of cities 1965 Sept p 54-63
battlestress 1956 Mar p 31-35	artificial satellite, telecommunication, data transmission, pulse-code
combinatorial analysis, mathematics, probability, normal curve, Brownian	modulation, digital transmission 1966 Sept p 144-156
motion, Markov chain, Pascal's triangle, statistics, probability theory	bilingualism, language, reading, information processing, learning
1964 Sept p 92–108	1968 Mar p 78–86 territorial behavior, pheromones, rabbits, scent glands, pecking order,
scheduling, algorithms, critical path scheduling, bin-packing,	territorial marking by rabbit 1968 May p 116–126 [1108]
mathematization of efficiency 1978 Mar p 124–132 [3001]	bird song, songbirds, syrinx, mechanism of sound production
combustibility, air pollution, catalysis, fly ash, dust storms, metallurgy, fine particles 1950 Dec p 50-53	1969 Nov p 126–139 [1162]
combustion chamber design, automobile engines, high compression,	African drum language, drums, gong language, talking drums
'knock', high-octane fuel, mechanical vs chemical solutions for	1971 Dec p 90-94
premature combustion 1950 Feb p 16–19	communication technology, cybernetics, information theory, language,
combustion instability, rocket engine, resonant combustion, propellant,	machine communication, introduction to single-topic issue on
acoustic oscillation 1968 Dec p 94–103	communication 1972 Sept p 30-41 [677] cell communication, genetic code, nerve impulse, hormonal action,
Comecon, computer technology, U S S R, software, integrated circuits	metabolic information 1972 Sept p 42-51 [1257]
1970 Oct p 102–108 comensalism, ants, insect behavior, animal communication, ant 'guests',	verbal communication, acoustic formants, phonetics,
parasitism, pheromones 1971 Mar p 86–93 [1213]	markedness/unmarkedness dyad, morphemes, syntax, context
comet, orbital motion, comet tails, spectroscopy, composition and origin	sensitivity, invariant/variable dyad 1972 Sept p 72-80
of comets 1951 July p 22–26	information theory, painting, sculpture, architecture, visual
solar radiation, Halley's comet, physics of comet tails	communication, trademarks, language, visual stimulus, visual signals
1958 Oct p 44–50	1972 Sept p 82–96 [548]
geomagnetism, magnetic reversals, tektites, meteorites, meteoritic	communication networks, communication satellite, electronic switching, multiplexing, network theory, radio, telephone systems,
impacts 1967 July p 32–38 galactic formation, nebular hypothesis, solar system evolution, stellar	television systems 1972 Sept p 116–128
evolution 1975 Sept p 32–41	communication terminals, computer technology, communication
backward tail explained 1957 Sept p 58	technology, microwave relays, transmitters, receivers
comet belt, Pluto, Neptune's orbit 1964 Aug. p 43	1972 Sept p 130–140
comet origins, cometary structure, exotic molecules, solar system,	communication technology, network hierarchies, two-way channels,
primordial dust cloud Comet Kohoutek 1974 Feb p 48–57	computer-assisted instruction, information retrieval, National Academy of Engineering study, 'Communications Technology for
comet tails, comet, orbital motion, spectroscopy, composition and origin of comets 1951 July p 22–26	Urban Improvement', 'wired city' concept 1972 Sept p 142–150
cometary structure, comet origins, exotic molecules, solar system	mass communication media, message systems, television violence,
primordial dust cloud, Comet Kohoutek 1974 Feb p 48–57	cultural patterns, sociology, mass communications as social
commerce, Classical archeology, underwater archeology, Roman empire,	environment 1972 Sept p 152–160 [679]
amphora 1954 Nov p 98–104	freedom of expression, civil rights, U S First Amendment
market, agricultural system, peasants, peasant markets in Haiti	1972 Sept p 163–172 [680]
1960 Aug p 112–122 [647]	crying infant behavior, neonatal disorder, mother-child interaction, sound spectrogram 1974 Mar p 84-90 [558]
money, bride price, cultural anthropology, red-feather money, Southwest Pacific-Solomon Islands culture 1962 Mar p 94-104	sound spectrogram 1974 Mar p 84-90 [558] gypsy moth, biological pest control, pheromones, olfactory receptors,
Assyrian civilization, Anatolia, 2000 B C, trade patterns	sex attractants, silk moth, chemotaxis 1974 July p 28-35 [1299]
1963 Feb p 96–106	computer language, man machine interface, talking computers
Vikings, nomads, Scandinavia, Vinland, Siegfried legend, seafaring,	1975 Mar p 36–42
Svea, appraisal of 400-year Viking ascendance 1967 May p 66–78	eye, nonverbal communication, pupil size, effect of pupil size on
invention, technology, patent-law reform 1967 June p 19–27 commercial aircraft, aeronautics, supersonic flight, aircraft design, sonic	attitude 1975 Nov p 110-119 [567] child development, language, social speech 1977 Feb p 100-105 [576]
boom, aviation industry, technology and economics of supersonic	radio, bouncing microwaves 1955 Sept p 69
transport 1964 June p 25-35	radio millimeter-wave region proposed 1970 Dec. p. 42
Committee for Economic Development, see CED	communication channels, carrier-wave modulation, coaxial cable
commodity prices, underdeveloped countries 1974 July p 46	communication technology, electromagnetic spectrum fiber optics
common cold, virus disease, human subjects chilling test, Salisbury, England study 1951 Feb p 39-45	radiowave bandwidth, noise 1972 Sept p 98–113
virus disease, tissue culture, 20 strains cultured 1960 Dec p 88–102	communication networks, communication satellite, electronic switching, multiplexing, network theory, radio, communication telephone
virus in tissue culture 1953 Nov p 52	systems television systems 1972 Sept p. 116, 129
Johns Hopkins virus vaccine 1957 Nov p 72	communication satellite, artificial satellite, telecommunication, orbital
virus cultured in monkey embryo kidney tissue 1960 Apr p 86 six distinct cold viruses 1967 Mar p 70	motion, Echo II satellite, radio, satellite communication systems
not reveal by abilian	consideration of alternatives 1961 Oct = 00 102
communication, information theory thermodynamics entropy	communication networks, electronic switching, multiplexing, part cel
1949 July p 11–15	theory, radio, communication telephone systems television systems
	1972 Sept p 116-128

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cognitive dissonance, human behavior, social psychology, experiments in	mattition to the same of the s
1967 Oct p 03 103 1477	
Concrete random, radar, microwayes, specifoscony, molecular hands	S The state of the
resonance absorption, energy levels, quantum mimos quantum	high engrouphysics at 2251
electrodynamics, time-keeping, foundation of maser, laser	high-energy physics, storage rings, synchrotron, particle accelerator, spark chamber 1966 Nov p 107-116 [323]
technology 1948 Sent n 16 23	spark chamber 1966 Nov p 107-116 [323] antimatter, high-energy physics, electron-
maser, microwave amplification, stimulated emission, quantum	C. come El Istalistation Control
mechanics, principles and uses of maser 1958 Dec. p. 42_50 1215	positron annihilation, proton, parton model, quantum electrodynamics 1973 Oct. p. 104-113
iaser, maser, sumulated emission, first lasers as 'optical masers'	high-energy physics marticle interestion proton proton interestion
1961 June p. 52-61 (274)	C E.R N 1973 Nov. p 36-44
molecular ocam, electron theory, resonance absorption, atomic	particle accelerator, new orders of collision energy 1978 Mar p 70
radiation, gas molecules, nuclear magnetic resonance, Stern-Gerlach	Colliding galaxies, galactic clusters, radio astronomy, non-eful signals
experiment 1965 May n. 58-74	may extend reach of astronomy 1956 Sept p 125-134
interference, brittonin scattering, energy levels, laser light	colonial building white rung North American forests Royal Nava King's
1968 Sept p 120-136	Broad Arrow, American Revolution 1948 June p 48-53
Cohonina, Amerindian, Havasupai, Paleolithic culture, prehistoric man in	colonialism, pidgin, linguistics Creole oullab grammar evolution and
the Grand Canyon 1958 Feb p. 97–102	claboration of colonial languages 1959 Feb p 124-134
coins, archeology, statistics, numismatics, Taxila hoard, India	colonization, human population, human migration, immigration policy,
counterfeiting, numusmatics, Roman Britain 1966 Feb p 102–111 1974 Dec p 120–130	slave trade 1974 Sept p 92-105
counterfeiting, nunusmatics, Roman Britain 1974 Dec p 120-130 coking, coal, chemical raw material, fossil fuel, 'water gas' process	color, stellar evolution, short-lived stars, main sequence
	1953 Mar p 34-37
hydrogenation 1955 July p 58-67 colchicine, chromosome doubling, plant genetics, hybrid cells.	spectroscopy, materials technology, photoelectric effect, laser,
'cataclysmic evolution' 1951 Apr p 54-59	transparency, optical properties of materials 1967 Sept p 238-248
arthritis, gout, metabolism, chemistry of gout 1958 June p 73-81	photoelectric effect, reflection, refraction, light, resonance absorption,
cold adaptation, Arcue flora, desert adaptation, paleobotany, Greenland	photon, electron, interaction of light with matter 1968 Sept p 60-71
flora, adaptations to Arctic climate 1956 Feb p 88-98	antimatter, electron-positron annihilation, J particle, psi particle,
carrbou, rodent, moose, polar ecology, animal adaptation to Arctic	charm, quark, high-energy physics, storage rings, virtual particles
1960 Jan p 60-68	1975 June p 50-62
adipose tissue, hibernation, brown fat, thermoregulation, homeostasis,	color and illumination, color vision, reflection, 'retinex' theory, visual
metabolism, neonatal physiology, heat production in newborn	perception, visual pigments, 'color Mondrian' experiment
animals, including man 1965 Aug p 62-65 [1018]	1977 Dec p 108–128 [1392]
circulatory system, thermoregulation, fur, metabolism, insulation	color blindness, sex linked traits, dichromatism, physiology and
1966 Jan p 94-101 [1032]	psychology of a vision defect 1951 Mar p 48-53
'cold-blooded' animals, behavioral adaptation, pigmentation,	cone cells, fovea, genetic disease, retinal image-processing, visual
thermoregulation, lizard, reptile, behavioral thermoregulation	pigments 1975 Mar p 64-74 [1317]
ectothermy, metabolism, heterothermy, insect flight, sphinx moths,	color centers, photolysis, photochemistry, chemical reaction, reaction kinetics, free radicals, spectroscopy, high speed chemistry
temperature regulation, Mandura sexta warm-up mechanisms	1960 May p 134-143
1972 June p 70–77 [1252]	color discriminination, in cats 1964 June p 59
cold cathode, electron beam, current density, X-ray photography, field	color fusion, color scission, perceptual transparency, physical
emission 1964 Jan p 108–118	transparency ontical illusion transparency visual perception
'cold light', bioluminescence, glow worm, firefly, abyssal fish, luciferase	1974 Apr p 90-98 [337]
1948 May p 46-49	color holography, holography, laser, microscopy, white-light reconstruction 1968 Feb p 40-48
cold war, economic development, military expenditures, politics of aid,	reconstruction 1908 Feb p 40-40
'rich' nations, 'poor' nations 1972 Apr p 15-21	color perception, insect eye, compound eye, optical resolution, insect behavior 1948 July p 42-45
colicine, ATP, cell membrane, membrane energetics, active transport, E coli 1975 Dec p 30-37 [1332]	usion form perception, role of experience in visual perception
coli 1975 Dec p 30-37 [1332] colicine-K, action defined 1959 June p 81	1949 Aug p 52-55
collagen, proteins, beta chain, alpha helix, polypeptide synthesis,	eve vision retinal numents cone cells trichromaticity implies three
polymers, amino acids, synthesis and architecture of proteins	cone pigments 1962 Nov p 120-132 [139]
1957 Sept p 173–184 [7]	surface colors, chromatic saturation, hue 1975 Aug p 62-75 [565]
elastin, keratin, myosin, fibrin, cell, polymers, polymers in living cells	frog's blue preference 1963 Jan p 62 cone cells of three kinds 1964 May p 60
1957 Sept p 204-216 [35]	
proline, hydroxyproline, collagen fibril, tropocollagen, connective	color photography, science history, Maxwell's color photograph, first three-color photograph 1961 Nov p 118-128
tissue, nature and properties of most abundant protein 1961 May p 120-130	emission nebulae interstellar cas ionization, nebular luminosity
	1974 Oct p 34-45
aging, tendons, biological age 1963 Apr p 104-114 [155] bone, piezoelectricity, osteogenesis, calcium metabolism, biological age 1963 Apr p 104-114 [155]	from silver-halide emulsions 1951 Jan p 30
adamtation to mechanical stress 1900 UCL P 10-23 (1021)	color session, color fusion, perceptual transparency physical
wound healing, regeneration, leukocyte, librobiasts, epidermai cells	transparency, optical illusion, transparency, visual perception 1974 Apr p 90-98 [559]
1969 June p 40-50 [1144]	color television, picture elements, line structure, field-scanning rate
elastin, fibroblasts, microfibrils 1971 June p 44-52 [1225]	technology assessment, competing color television systems weighed
blood plasma, cell-surface antigens, glycoproteins, interferon, protein 1974 May p 78–86 [1295]	1950 Dec p 13-1/
	compatability with black and white 1950 Oct p 25
collagen-cutting cityme, conagenate hydroxyproline, tropocollagen,	lingation continues 1951 July p 20
appropries freque manife and properites of most as area	designed by E O Lawrence 1951 Nov p 33 hool to the laborator 1951 Dec p 34
10/5 %	advantage teaming conditioned behavior, behavioral psychology
	Skinner box, visual discrimination, pigeons conditioned to respond
collective-effect accelerators, electron-ring accelerator, parties 1972 Apr p 22-33	1938 Jan n 77-82 (403)
accelerator, particle-storage rings 1972 Apr p 22-33	visual perception "long" and "snort wavelengths in color perception
accelerator, particle-storage rings collector ions, flotation, nuneral separation, surfactant, bubbles, ore 1956 Dec p 99-110	1959 May p 84-99 [223] vision visual adaptation, human eye 1962 May p 62-72 [465]
beneficiation	all acception constancy effect, neutral colors
college graduates, intellectual resources of 0 5, 5 and 1951 Sept p 42-46	1963 Jan p 107-116 [474]

ompound eye, insect eye, color perception, optical resolution, insect behavior 1948 July p 42-45	artificial intelligence chess-playing computer 1958 June p 96-105 artificial intelligence, minutes of man-machine chess game 1973 June p 92-105
eye, insect eye, ommatidia 1977 July p 108-120 [1364]	1074 37
Compton effect Cerenkov radiation 1951 Oct p 54-55	championship 1974 Nov p 51
ionizing radiation, photoelectric effect, chemical effects, cytology, free	Cheops readied for play 1976 July p 66
radicals, lethal effects of radiation 1951 Dec p 22-25	Chess 45 vs Levy 1977 June p 56
quantum mechanics, Planck, science history, spectroscopy, black body,	computer-controlled fabrication, electron optics, microcircuit fabrication,
resonators, Einstein, photoelectric effect, quantum jumps	silicon 'chips', computer technology, integrated circuits
1952 Mar p 47–54 [205]	1972 Nov p 34-44
computability theory, Chinese remainder theory, Diophantine equations,	computer decision making. accounting systems design, computer
Hilbert program, mathematics 1973 Nov p 84–91	technology, bookkeeping, uses of computers in organizations
Hilbert program, mathematics 1973 Nov p 84-91 computer, integrated circuits, memory circuits, 'Simple Simon' a minimal	1966 Sept p 192–202
	computer design, automata theory, Turing machine, von Neumann
computer 1930 Nov p 40-43	machine, brain circuitry 1955 Apr p 58–67
Babbage, difference engine, analytical engine, digital computer, life and	computer theory, integration of processor and memory, parallel
work of Charles Babbage 1952 Apr p 66–72	processing, sequential processing, microelectronics
automatic control, solid-state electronics, analog-to-digital conversion,	1977 Sept p 210–228 [383]
digital computer, analogue computer, the universal machine	computer displays, cathode-ray tube, computer technology, information
1952 Sept p 116-130	theory, light pen, computer graphics, rand tablet, computer graphics
mathematics, number theory, computer finds five perfect numbers	and man machine interface 1966 Sept p 86–96
1953 Mar p 84–86	computer enhancement, Mars, space exploration, telemetry, television
communication technology, magnetic tape, magneto-optical recording,	
recording, playback 1969 Nov p 70–82	camera, computer graphics, Mariner IV photographs, Martian
calculating machine, pocket calculator, integrated circuits, memory	topography 1966 Apr p 54-68
1976 Mar p 88–98	visual perception, information theory, computer graphics, 'block
speed limits 1968 Mar p 50	portraits', pattern recognition, recognition of faces
computer algorithms, computer-assisted imaging, image reconstruction,	1973 Nov p 70–82
computer graphics, medical care, tomography, CAT scan	Caruso recording 1975 July p 48
1975 Oct p 56–68	computer failure, flip-flop indecision 1973 Apr p 43
computer analysis, chromosomal anomalies, pattern recognition,	computer graphics, pattern recognition, visual perception, stereoscopic
computer graphics, computer recognition and classification of	images, texture discrimination, depth perception
chromosomes 1966 Apr p 40–46 [1040]	1965 Feb p 38–48 [318]
stone tools, tool assemblages, multivariate analysis, factor analysis,	computer applications, fluid dynamics, computer modeling, scaling
Paleolithic archeology, Bordes method, stone tools as fossils of	wind tunnel, vortex 1965 Mar p 104-110
behavior 1969 Apr p 70–84 [643]	chromosomal anomalies, pattern recognition, computer analysis,
evolution, proteins, species specificity, cytochrome, amino-acid	computer recognition and classification of chromosomes
substitution, phylogeny from amino-acid substitution	1966 Apr p 40-46 [1040]
1969 July p 86–95 [1148]	Mars, space exploration, computer enhancement, telemetry, television
automatic cell sorting, blood cell analysis, lymphocytes, pattern	camera, Mariner IV photographs, Martian topography
recognition, automatic analysis of white cells 1970 Nov p 72-82	1966 Apr p 54–68
Epistles of St Paul 1964 Jan p 56	cathode ray tube, computer technology, computer displays,
the meaning of Samuel Becket's 'lessness' 1973 Aug. p 47	information theory, light pen, rand tablet, computer graphics and
computer applications, business computers, computer goes to market	man-machine interface 1966 Sept p 86–96
1954 Jan p 21–25	camera, lens design, telescope, interferometry, image formation, light 1968 Sept p 96-108
fluid dynamics, computer modeling, scaling, wind tunnel, vortex,	automatic control, computerized design, computer technology, control
computer graphics 1965 Mar p 104–110	systems, uses of computer in technology 1966 Sept p 176–188
reapportionment, redistricting, elections, representative government,	aerodynamics, airfoil, boomerang, actual and theoretical boomerang
gerrymander 1965 Nov p 20–27	orbits 1968 Nov p 124-136
computer technology, information theory, binary arithmetic, computer industry, computer privacy, introduction to single-topic issue on	molecular structure, electron shells, computer modeling, quantum
information processing 1966 Sept p 64–73	chemistry, molecular orbits 1970 Apr p 54-70
syntactic analysis, analog-to-digital conversion, computer modeling,	laser, integrated circuits, computer technology, computer modeling.
computer technology, computer as instrument and as 'actor' in	programs logic of displays 1970 June p 56–81
science 1966 Sept p 160–172	visual perception, information theory, 'block portraits', computer
botany, taxonomy, set theory, zoology, numerical taxonomy, computer	enhancement, pattern recognition, recognition of faces
classification of living things 1966 Dec p 106–116 [1059]	1973 Nov p 70–82
electronic typesetting printing, photographic typesetting, digital	architectural drawing, computer modeling 1974 May p 98–106
computer, mechanical composition, cathode-ray tube	computer algorithms computer-assisted imaging, image
1969 May p 60-69	reconstruction, medical care, tomography, CAT scan
automatic control, machine tool, parts manufacture, batch process	1975 Oct p 56-68
production methods 1975 Feb p 22–29	computer history, mathematics, arithmetic, computer's contribution to
robot, assembly, labor-saving devices manufacturing productivity.	mathematics 1964 Sept p 202–216
programmable robot for product assembly 1978 Feb p 62-74 [929]	Bacon's cipher, binary code, Boolean algebra, science history, Jacquard
on production line 1953 May D 55	loom, punched cards 1972 Aug. p 76–83
computer-assisted imaging, computer algorithms, image reconstruction.	computer industry, computer technology, information theory, binary
computer graphics medical care, tomography, CAT scan	arithmetic, computer privacy, computer applications introduction to
1975 Oct n 56-68	single-topic issue on information processing 1966 Sept. p. 64-73
ultrasonics medical diagnosis, optics echo-sounding, sonar, imaging	computer language, computer programming, systems analysis computer
internal organs by ultrasound 1978 Max n 98-113 (1389)	technology, how to write a computer program 1966 Sept. p. 112-124
computer-assisted instruction, communication technology, network	communication man machine interface, talking computers
hierarchies communication, two-way channels, information	1975 Mar n 36 47
retneval National Academy of Engineering study, 'Communications Technology for Urban Improvement', 'wired city' concept	algorithms computer programming, hash table, binary search trees
	1977 Apr p 63-80
computer assisted tomographs, see CAT scan	in natural languages
computer champions MANIAC and FNIAC 1062 Aug p. 26	computer memory, computer technology digital computer analogue
computer chess, artificial intelligence automata theory 'thinking'	computer, relay computers binary arithmetic logic automates
approaches an operational definition 1950 Feb p 48-51	control control systems, status of 'mathematical machines'
1700 to p 1 21	1949 Apr p 28-39

artificial satellite, COMSAT, Intelsat, Communications Satellite Act	SHALL CALADON TOD
1977 Feb p S8-73 [353	auxins, serotonin, LSD, neurophysiology, physiological function of
Toleton described to Toleton described to the Sept p 8	reptile, marine birds, adaptation, salt executing alanda
comparative performance of satellite systems 1963 Sept. p. 9.	1959 Jan n 109-116
educational television 1966 Sant p. 10	hamanialan
COMSAT plans 1971 Sept p 76	S laboratory animals nig small nig as experimental animal assemblence
011 file 1976 Apr n 5	to man 1966 June p 94-100 [1045]
communication technology, electronics, electron tubes, amplifiers,	heat exchange, mackerel shark, rete mirabile, thermoregulation, tuna,
rectifiers electron optics, cathode-ray tube, communication, power, thermionic emission, state of the technology 1950 Oct p 30-39	Warm-bodied fishes 1973 Feb p 36_44 [1266]
radio, ionosphere, microwave transmission, troposphere, ionosphere	i pressure, breathing, gratte tespitation
and tropospheric scattering 1957 Jan p. 46-51	1974 Nov p 96-105 [1307] comparative psychology, insect behavior, social insect army ant, ants,
interplanetary navigation, spacecraft, orbital motion, rocket.	reproduction, feedback, pheromones, trophallaxis, natural history,
navigation, technology of space navigation 1960 Mar p. 64-73	philosophy of science, anthropomorphism 1948 June p 16–23
laser, signal transmission, multiplexing signal transmission by laser	learning, thinking, thesus monkeys 'learning to think'
1966 Jan p 19-27 [302] pulse-code modulation, digital transmission, binary arithmetic,	to be straight as a set of
television, transmission quality, telephone, AM, FM	fear, emotional development, learning, influence of early environment, experiments with dogs 1956 Jan p 38-42 [469]
1968 Mar p 102-108	
laser, pulse-code modulation, electron optics, Kerr effect, Pockel's	innate behavior, learning behavior, field observation of praine dog
effect, polarization, modulators, modulation of laser light	communities 1959 Oct p 128–140
1968 June p 17–23	desert adaptation, kidney function, salt-water balance,
magnetic tape, computer, magneto-optical recording, recording, playback 1969 Nov p 70-82	thermoregulation, man camel comparison
carrier-wave generator, crystal structure, diode laser, laser,	1959 Dec p 140-151 [1096] Visual cliff, depth perception, infant, visual perception, genesis of
heterostructure lasers, lighf-emitting semiconductor, solid-state	depth perception 1960 Apr p 64-71
electronics 1971 July p 32-40	baboons, human evolution, social behavior, social anthropology, Kung
cable television, television, wired-city concept 1971 Oct p 22-29	bushmen, sexual behavior, origin of society
cybernetics, information theory, language, machine communication,	1960 Sept p 76-87 [602]
communication, introduction to single-topic issue on communication 1972 Sept p 30-41 [677]	ethology, social behavior, gulls, animal behavior, evolution, reconstructing gull family tree from behavior of species
carrier-wave modulation, coaxial cable, electromagnetic spectrum, fiber	1960 Dec p 118-130 [456]
optics, radiowave, communication channels, bandwidth, noise	baboons, social behavior, sexual behavior, baboon troops in their
1972 Sept p 98–113	natural environment 1961 June p 62-71 [614]
communication terminals, computer technology, communication, microwave relays, transmitters, receivers 1972 Sept p 130-140	cichlid fish, manne iguana, rattlesnake, fighting behavior, animal behavior, oryx 1961 Dec p 112–122 [470]
microwave relays, transmitters, receivers 1972 Sept p 130–140 network hierarchies, communication, two-way channels, computer-	group behavior, crowding, rats, population density, social pathology of
assisted instruction, information retrieval, National Academy of	crowding 1962 Feb p 139–148 [200]
Engineering study, 'Communications Technology for Urban	primate behavior, chimpanzee, social behavior, tool-using, observation
Improvement', 'wired city' concept 1972 Sept p 142–150	of chimpanzees in the wild 1962 May p 128-138 [463] social deprivation, rhesus monkeys, maternal deprivation, peer group.
sound waves, crystal surface waves, electronic equipment Rayleigh waves, signal processing, ultrasonic waves 1972 Oct p 50-68	experiments in social deprivation 1962 Nov p 136-146 [473]
laser, fiber optics, light pipe, light-emitting diode 1973 Nov p 28–35	parental care, emotional development, abnormal behavior, maternal
digital transmission, microelectronics, telecommunication	deprivation, early experience and emotional development.
1977 Sept p 192–209 [382]	experiments with rats 1963 June p 138–146 [478] cardiac function, hagfish, cyclosomes, knot-tying fish, hermaphrodiae
communication terminals, computer technology, communication technology, communication, microwave relays, transmitters,	1966 Feb p 82-90 [1033]
receivers 1972 Sept p 130–140	teaching elephants 1956 June p 66
community action, education, poverty, group behavior, rural poverty	comparative religion, ethnic groups, gene isolation, Israel, Judaism,
emotional illness, social psychology, study of community	Samaritans, Holon and Nablus communities 1977 Jan p 100-108 [690]
regeneration 1965 May p 21-27 [634] group behavior, poverty, culture of poverty, subculture of Western	competition, cooperation, social psychology 1950 Apr p 54-36
market societies 1966 UCL D 19-23 [031]	complement-fixation test, virology, neutralization test, hemagglutination
and the second of the second o	test 1955 Mar p 60-70
medical specialist, laboratory services Bingham plan, organization	complex numbers, quaternions, non-commutative algebra, mathematics, high-energy physics, Hamilton, life and work of William Rowan
bada/1000 nonulation 1948 Aug p 22	Hamilton 1954 May p 82-87
beds/ 1000 population mental health, emotional illness,	mathematics, number theory, negative numbers, irrational numbers,
psychiatric hospital population, psychoactive drugs, psychotherapy,	matrix 1964 Sept p 50-59 complexity theory, networks, switchboards, mathematics from networks
psychiatry, psychoanalysis 1973 Sept p 116-127 emotional illness, skid row, drug addiction, psychoactive drugs,	and su uching systems 1978 June p 114-124 [3013]
'deinstitutionalization' of the emotionally ill	composite materials, glass fiber, materials technology, synthetic fiber,
[9761 00 p 40-33 [301]	plastics, properties of 'two-phase' materials 1962 Jan p 124-134 crystal structure, metals whiskers, liber-reinforced, dislocations,
community mental-health movement, Gheel, Belgium, model 1975 Jan p 49	matery two phase materials 1965 Feb p 28-3/
et and the mass transit automobile.	place metals materials technology, ceramics, polymers, chemical band,
	atom, elements, introduction to single-topic issue on materials
transportation 1965 Sept p 162–174	materials technology, whiskers fiber glass, two-phase materials, fiber-
comparative anatomy, badger, dog horse, electan, locombinative 1960 May p. 148-157	renforced composites, matrix eulectics 1967 Sept p 160-176
running, how animais run	cermets dispersion-strengthened composites, liber-reinforced
comparative grammar, Indo-European languages reconstructing genealogy of Indo-European languages 1958 Oct p 63-74	composites, particulates 1973 July p 36-44 automobile propulsion, electric power generation, energy storage,
reconstructing genealogy of indo-Editor 1958 Oct p 63-74	19/3 Dec n 17-23
comparative physiology, erythrocyte, hematology, structure of red blood 1957 Jan p 95-102	composite numbers, number theory, magic squares binary arithmetic
cell	prime number 1951 July p 52-55

ARPANET, computer inter-communication 1972 June p 52	eye, vision, retinal pigments, color perception, trichromaticity implies
computer theory, games theory, logic, algorithms, problem solving,	three cone pigments 1962 Nov p 120–132 [139]
Turng machine 1965 Nov p 98–106	color vision, retina, pigments, ganglion cells, spectrophotometry, three- color receptor system 1964 Dec p 48-56 [197]
computer design, integration of processor and memory, parallel	rod cells, visual cells, autoradiography, protein synthesis, renewal
processing, sequential processing, microelectronics 1977 Sept p 210–228 [383]	mechanisms in retinal cells 1970 Oct p 80–91
computer time sharing, queues, traffic, mathematics, operations research,	retina, receptor cells, rod cells, retinal sensitivity, retinal information
applications of queuing theory 1968 Aug p 96–103	processing maintains high contrast image over broad range of
computer translation, linguistics, information theory 1956 Jan p 29–33	illumination 1973 Jan p 70–79
language, computer study of structure of language 1962 June p 68-76	color blindness, fovea, genetic disease, retinal image-processing visual
Chinese language, pattern recognition, experiment in machine	pigments 1975 Mar p 64-74 [1317] cone of avoidance, aurora, magnetic storms, sunspots, solar wind, solar
translation 1963 June p 124–135	rotation, corpuscular streams, cycles in 'solar wind'
Chinese language, Chinese writing, tones, Mandarin Chinese, Chinese dialects 1973 Feb p 50-60	1955 Feb p 40-45
dialects 1973 Feb p 30-00 computerized design, automatic control, computer technology, control	conference, group behavior, interpersonal relationships, social
systems, computer graphics, uses of computer in technology	psychology 1955 Mar p 31–35
1966 Sept p 176–188	confirmation theory, hypothesis-testing, logic, inductive proof, philosophy
COMSAT, artificial satellite, communication satellite, Intelsat,	of science, probability 1973 May p 75-83
Communications Satellite Act (1962) 1977 Feb p 58–73 [353]	conflict, attention, learning, physiological psychology, novelty, monotony, conflict and arousal, aid to learning
concrete, Portland cement, hydration, X-ray diffraction, cement, chemistry of concrete 1964 Apr p 80–92	1966 Aug p 82–87 [500]
chemistry of concrete 1964 Apr p 60-92 concrete-polymer, gamma-radiation hardening process 1969 Apr p 50	conformational isomerism, hydrocarbons, chemical bond, organic
concrete shrinkage, cement expander 1964 Oct p 60	molecules, conformation and reactivity 1970 Jan p 58-70 [331]
condensation nuclei, weather control, cloud seeding, silver iodide, Project	conformity, perception, social pressure 1955 Nov p 31-35 [450]
Cirrus, dry ice 1952 Jan p 17–21	adolescence, interpersonal relationships, social psychology, U S
meteorology, ocean foam, salt particles, cloud physics, rain, seasalt and	teenage attitudes 1958 June p 25–29
rain 1957 Oct p 42–47	group behavior, social psychology, human subjects, group pressure, experiments in susceptibility to group pressure 1961 Dec p 45-51
ice, snow, water, frost, supercooling, ice worms, how water freezes 1959 Feb p 114-122	congenital anomalies, agammaglobulinemia, gene expression,
crystal growth, snow crystals, natural and artificial condensation nuclei	alkaptonuria, Wilson's disease, chemistry of hereditary disease, one
1961 Jan p 120–131	gene-one enzyme hypothesis 1956 Dec p 126–136
upper atmosphere, cloud, mesopause, meteoritic dust, rocket-borne	cleft palate, fetal injury, embryonic development, teratogenesis, rubella,
collectors sample noctifucent clouds 1963 June p 30–39	teratology 1957 Oct p 109–116
condensation polymers, molecular science, polymers, addition polymers,	genetic disease, hemophilia, epidemiology, mutation, in Queen Victoria's descendants 1965 Aug p 88-95
introduction to single-topic issue on 'giant molecules' 1957 Sept p 80-89	purpura, virus disease, vaccine, teratogenesis, pregnancy, congenital
molecular science, polymers, addition polymers, introduction to single-	rubella, rubella 1966 July p 30–37
topic issue on 'giant molecules' 1957 Nov p 80-89	ateliosis, midgets, pituitary insufficiency, dwarfism, genetic disease,
conditioned behavior. Payloy, behavioral psychology, biography and	consanguinity, growth hormone deficiency, panhypopituitarism,
appraisal of I P Paylov 1949 Sept p 44-47	General Tom Thumb 1967 July p 102-110 see also genetic disease, chromosomal anomalies
color vision, learning, behavioral psychology, Skinner box, visual	congenital rubella, congenital anomalies, purpura, virus disease vaccine,
discrimination, pigeons conditioned to respond to discrete wavelengths of light 1958 Jan p 77–82 [403]	teratogenesis, pregnancy, rubella 1966 July p 30–37
electroencephalography, brain waves, learning sleep, correlation of	Congo, Pygmies, social anthropology, Bambuti, symbyotic relationship of
brain waves to behavior 1959 Aug p 89-96	jungle Pygmies and pastoral-village peoples
learning, visual perception, Fechner's law, psychophysics, Skinner box,	[963 Jan p 28–37 [615]
behavioral psychology, pigeon perception 1961 July p 113-122 [458]	Congressional investigation, content analysis, newspapers, military secrecy, 'Condon case', content analysis of newspaper coverage of
planarian, learning, maze running, 'protopsychology', evidence of	political attacks on E U Condon 1949 Feb p 16-21
learning in a primitive nervous system 1963 Feb p 34-62	conic sections, Fermat, Descartes, mathematics history, analytic
learning, kinesthetic memory, behavioral psychology, place-learning	geometry, Euler, mathematics 1949 Jan p 40-45
1963 Oct p 116-122 [479]	geometry, mathematics, topology, non-Euclidian geometry, history and current uses of geometry 1964 Sept. p. 60-69
learning, long-term memory, short-term memory, lobotomy, octopus, touch, sensory perception, correlation of brain structure and	contine, alkaloids, plant physiology, morphine, strychnine 'hemlock',
function in octopus 1965 Mar p 42–50 [1006]	physostigmine, caffeine, quinine, cocaine, ricinine LSD, human
brain metabolism, memory, protein synthesis, goldfish, learning	toxins in plant physiology 1959 July p 113-121 (1087)
1967 June n. 115–122 [JU//]	conjugation, bacteria, sexual reproduction, recombinant DNA gene
electrochemistry of conditioned behavior 1957 Nov p 74	recombination, sexuality in bacteria 1956 July p 109–118 [50]
behavioral psychology, effect of reinforcement on learning 1958 Dec p 58	bacteria, bacteriophage, gene recombination, recombinant DNA, mechanisms of heredity and infection in bacteria
see also operant conditioning, behavioral new cholony	1961 June n 92-107 1891
conditioned reflex, spinal reflexes reflex conditioning, "spinal" cats (1 e	Connecticut River, calefaction, fission reactor, thermal pollution
with resected spinal cords) walk 1950 Nov p 20–22	industrial cooling, nuclear power, fisheries, ecology, fish crisis
automata theory, learning, feedback 1951 Aug p 60-63 neurosis, operant conditioning, Paylov, psychology, thyroidectomy	1970 May p 42-52 [1177] connective tissue, collagen proline, hydroxyproline, collagen fibril,
stress, emotional behavior, neurosis conditioned reflex is shown to	tropocollagen, nature and properties of most abundant protein
	1961 Max p. 120_130
Control case, content analysis, newspaper	connective tissue cell, cell anatomy, spermatozoon, ovum varus science
of polytical attacks on E. U. Condon	nistory, eviology, muscle cell plant cell, introduction to single-topic
locals and security Condon's multi-1.	issue on the living cell 1961 Sept p 50-61 [90] consanguinity, ateliosis midgets pituitary insufficiency, dwarfism
conduction electrons, crystal energetics on and	genetic disease, congenital anomalies, growth hormone defining
properties particle concept, Fermi surface metal	pann) population (leneral for Thumb 1067 t 102 110
cone cells exe rod cells return the onte-	blood groups genetic drift, mutation, gene pool, evolution, population
anatomy and physiology of the eve camera as metaphor	
1950 Aug p 32-41 [46]	cannabis sanva marijuana drug abuse, pharmacology,
Soo Mak h 32 at 1 at	1969 Dec p 17-25 [524]

ferroelectric crystal memory, ferrite cores, mercury delay line, magnetic	feedback can Naversey and
tape, magnetic arum 1955 June p. 02 100	
crystal structure, magnetism, ferrites, materials technology, micrough	a state of the sta
radiation, industrial applications of iron oxides	algorithms. Koenigsberg bridges, undecidable questions, polynomial
1960 June p 92–104	time problems, exponential-time problems, efficiency of algorithms
binary arithmetic, computer technology, integrated circuits, switching	1978 Jan p 96–109 [395]
elements, logic circuits, microelectronics, hardware of computer	computer technology, digital computer, analogue computer, relay
oxide semiconductors, magnetic core, integrated circuits,	computers, binary arithmetic, logic, automatic control, computer
microelectronics, advent of integrated-circuit semiconductor	memory, control systems, status of 'mathematical machines'
	1949 Apr p 28-39
memories 1967 July p 18–31 integrated circuits, metal-oxide semiconductors, microelectronics,	transistor, junction transistor, vacuum tube, electronics, forecast of a
large-scale integrated circuits, logic circuits, transistor	'revolution in electronics' 1951 Aug p 13-17
1970 Feb n 22-31	Voder, speech recognition, sound spectrogram 1955 Feb p 92-98 Antikythera, planetary motion, Greek computer, ancient instruments,
magnetic-bubble memories, magnetic domains 1971 June p. 78–90	science history, Classical archeology, 2,000 year-old computer
charge-coupled devices, charge transfer, image sensing, semiconductor	1959 June p 60-67
memories 1974 Feb p 22-31	molecular replication, self-reproducing machine, automata theory,
photographic film 1955 Sept p 74	machine models of molecular assembly 1959 June p 105-114 [74]
cryotron circuitry 1956 June p 64	pattern recognition, artificial intelligence 1960 Aug p 60-68
computer modeling, crystal structure, molecular motion, particle motion	cry ogenic technology, superconductivity, superconducting computers
key to bulk properties of materials 1959 Oct p 113-126 [265]	1961 July p 124–136
Monte Carlo method, gas kinetics, mathematical model, chemistry by computer 1964 July p 100-108	computer programming error-correcting codes, redundancy for error
computer applications, fluid dynamics, scaling, wind tunnel, vortex,	detection 1962 Feb p 96-108 central nervous system, redundancy, reliability, error suppression
computer graphics 1965 Mar p 104–110	1964 Feb p 103–112 [298]
mathematical model, giant molecules, cytochrome helix, myoglobin,	information theory, binary arithmetic, computer industry, computer
hemoglobin, molecular modeling, DNA 1966 June p 42-52 [1043]	privacy, computer applications, introduction to single-topic issue on
computer applications, syntactic analysis, analog-to-digital conversion,	information processing 1966 Sept p 64-73
computer technology, computer as instrument and as 'actor' in	binary arithmetic, integrated circuits, switching elements, logic circuits
science 1966 Sept p 160–172	computer memory, microelectronics, hardware of computer
cities, urban transport, personal-transit systems, systems analysis, mass	1966 Sept p 74-85
transit 1969 July p 19–27	cathode-ray tube, computer displays, information theory, light pen,
molecular structure, electron shells, quantum chemistry, molecular orbits, computer graphics 1970 Apr p 54-70	computer graphics, rand tablet, computer graphics and man machine interface 1966 Sept p 86-96
orbits, computer graphics 1970 Apr p 54-70 computer graphics, laser, integrated circuits, computer technology,	computer programming, computer language, systems analysis, how to
programs, logic of displays 1970 June p 56-81	write a computer program 1966 Sept p 112-124
continental drift, plate tectonics, scaling, subduction, sea-floor	time-sharing man-machine interface, multiple terminals, multiple users
spreading, Earth crust, Triassic period, Pangaea, supercontinents,	1966 Sept p 120-140
breakup of Pangaea traced 1970 Oct p 30-41 [892]	computer applications, syntactic analysis analog-to-digital conversion
architectural drawing, computer graphics 1974 May p 98–106	computer modeling, computer as instrument and as actor in science 1966 Sept p 160-172
chemical reaction, oscillating reagents, rotating chemical reactions,	automatic control, computerized design, control systems, computer
non-linear reactions 1974 June p 82–95 microelectronics, minicomputers, personal computers, FLEX, LOGO,	graphics, uses of computer in technology 1966 Sept p 176–188
SMALLTALK 1977 Sept p 230–244 [384]	accounting systems design computer decision making, bookkeeping
embryonic development, growth, grid-transformation, the shaping of	uses of computers in organizations 1966 Sept p 192-202
tissues in embryos 1978 June p 106–113 [1391]	education, teaching machine, programmed instruction, individualized
paranoia 1973 Feb p 48	teaching 1966 Sept p 200~220 [555]
computer music, music, information theory, redundancy, computer study	information storage, information retrieval, microrecording electronic scanner, microfiche, library science 1966 Sept p 224-242
of structure of music 1959 Dec p 109–120 Paratrop compositions 1956 Sept p 120	scanner, microfiche, library science 1966 Sept p 224-242 artificial intelligence, heuristic programs, computer programming
Datatron compositions 1936 Sept. p. 120 computer privacy, computer technology, information theory, binary	1966 Sept p 240-200
arithmetic, computer industry, computer applications, introduction	binary arithmetic, maximum computer speed 1968 Oct p 93-100
to single-topic issue on information processing 1966 Sept p 64-73	computer graphics, laser, integrated circuits, computer modeling,
code security, cryptography, data-bank confidentiality	programs, logic of displays 1970 June p 56-81
19/3 May p 13-23	USSR, software, Comecon, integrated circuits 1970 Oct p 102-108 computer programming, parallel processing, sequential processing
by cryptography 1970 Jan p 52	ILLIAC IV fastest computer 1971 Feb p 76-87
Netional Pureau of Standards sateguards 1977 Feb p 30	cluster seeking algorithms, pattern recognition reading machines
computer programming, error-correcting codes, computer technology, redundancy for error detection 1962 Feb p 96–108	1971 Apr p 56-71
redundancy for circle accounts	communication terminals, communication technology, communication,
response stability, dynamic programming, policy concept	microwave relays, transmitters, receivers 1972 Sept p 130-140 electron optics, microcircuit fabrication, computer-controlled
1904 Sept p 180-200	fabrication, silicon 'chips', integrated circuits 1972 Nov p 34-44
computer language, systems analysis, computer technology, how to	automatic control, electric power generation, generator control power-
1300 Dept p 112 12.	system control 1974 Nov. p. 34-44
artificial intelligence, computer technology, heuristic programs 1966 Sept p 246–260	automatic control, instructable machines, robot systems
to local parallel processing, sequential processing,	servomechanisms 1976 Feb p 76-86B microcomputers, microprocessors, microelectronics
ip71 Feb p 76–87	1977 Sept p 146–161
	distributed-processing networks, microelectronics
1964 Aug. D 44	1977 Sept p 162–177 [380]
	tik-tak toe machine 1949 Oct p 29
Cooley-Tukey algorithm for Fourier analysis	machine for translation 1949 Dec p 30 hants' check in programs 1950 July p 27
conjuter science, cybernetics, feedback, automatic control, self- regulation, automata theory, mechanical, biological, social self- 1948 Nov p 14-19	'parity' check in programs 1950 July p 27 for Naval ordnance 1955 Feb p 62
regulation, automata theory, mechanical, biological, 1948 Nov p 14-19 regulation	high coned printer 1936 June p. 62
100000000	software into hardware, SYMBOL system 1972 Mar p 42

control panel, automatic control, continuous processing, fluid dynamics,	copper, trace elements, iron, manganese, zinc. magnesium, iodine, human
petroleum refinery, automatic chemical plant 1952 Sept. p. 82-96	nutrition 1953 Jan. p. 22–25
control systems, computer technology, digital computer, analogue	metallurgy, New World archeology, New World archeology, Old Copper culture, Peru, gold, lost-wax casting, metalwork, pre-
computer, relay computers, binary arithmetic, logic, automatic	Columbian, New World, 4,000 B.C. 1966 Apr. p. 72–81
control, computer memory, status of 'mathematical machines' 1949 Apr. p. 28-39	metal artifacts, Turkey, metallurgy, Neolithic archeology, village-
automatic control, servomechanisms, actuators, frequency response,	farming communities, man's first use of metals: 7,500 B.C.
pneumatic servomechanisms, hydraulic servomechanisms, control	1970 Mar. p. 50–56
systems 1952 Sept. p. 56–64	copper biochemistry, ceruloplasmin, hemocyanin, oxygen transport.
enzymes, protein synthesis, hemoglobin, myoglobin, feedback,	enzymes, copper deficiency, cytochrome oxidase, Wilson's disease, tyrosinase 1968 May p. 102-114
cooperative enzymes, allosteric enzymes, control of biochemical reactions 1965 Apr. p. 36–45 [1008]	copper deficiency, ceruloplasmin, hemocyanin, oxygen transport,
reactions 1965 Apr. p. 36–45 [1008] automatic control, computerized design, computer technology,	enzymes, cytochrome oxidase, copper biochemistry, Wilson's
computer graphics, uses of computer in technology	disease, tyrosinase 1968 May p. 102-114
1966 Sept. p. 176–188	'coppering', friction, Leonardo, Coulomb, technology history, sliding
chromatography, process control, automatic control, predictive control	surfaces, molecular cohesion 1951 Feb. p. 54–58 coprid beetles, beetle, cattle, dung beetles 1974 Apr. p. 100–109
1969 June p. 112–120 feedback, water clock, thermostat, windmills, automatic control, flyball	coprolites, diet, human feces, human nutrition, prehistoric man
governor, origins of feedback control 1970 Oct. p. 110–118	1975 Jan. p. 100–109 [687]
arms race, cruise missiles, SALT, strategic weapons, tactical weapons,	coral, algae, coral rings, fossil reefs, paleontology, climatic change, dating
navigation systems 1977 Feb. p. 20–29 [691]	by coral rings 1966 Oct. p. 26–33 [871]
automatic test systems, automatic control, microelectronics, measuring	geochronometry, dating by coral growth rings 1963 May p. 78 coral reef wax, biological wax, copepod lipids, marine wax, metabolic
instruments 1977 Sept. p. 180–190 [381] control theory, mathematics, cybernetics, computer programming.	fuel, food chain 1975 Mar. p. 76–86 [1318]
feedback, frequency response, stability, dynamic programming.	coral reefs, climatic change, energy cycle, fossil reefs, marine ecosystems,
'policy' concept 1964 Sept. p. 186–200	reef evolution 1972 June p. 54-65 [901]
controlled eutectics, alloys, eutectics, crystal structure, metallurgy,	coral rings, algae, coral, fossil reefs, paleontology, climatic change, dating
whiskers, controlled-cooling magnets 1967 Feb. p. 86–92 controlled mutation, by synthetic gene 1957 Oct. p. 60	by coral rings 1966 Oct. p. 26–33 [871] core memory, see: computer memory
controlled mutation, by synthetic gene 1957 Oct. p. 60 conurbation, housing, urban planning, central city, suburbs, cities,	Coriolis effect, ocean circulation, atmospheric circulation, relativity of
metropolitan area, evolution of the metropolis 1965 Sept. p. 64-74	motion 1952 May p. 72-78 [839]
convection cells, Earth mantle, convection currents, plate tectonics,	Atlantic Ocean, Gulf Stream, ocean circulation, salinity, oxygen level.
driving force of continental drift, large-scale circulation	ocean temperature, 'anatomy' of the Atlantic 1955 Jan. p. 30-35 [810]
1976 Nov. p. 72-89 [921] convection currents, tectonic processes, mountain formation, Earth	atmosphere, wind, ocean circulation, climate 1969 Sept. p. 76–86
mantle, the 'blister hypothesis' 1949 June p. 16-21	ocean circulation, wind effect, currents, laboratory analogues
Earth heat, Earth mantle, Earth core, heat flow, radioactivity	1970 Jan. p. 114–121 [390]
1950 Dec. p. 54–57	bathtub vortex bathtub vortex clockwise in Southern hemisphere 1962 Nov. p. 74
geomagnetism, geophysics, electromagnetism, magnetohydrodynamics, Earth core, origin of terrestial magnetism 1958 May p. 44-48	com, genetics, teosinte, tripsacum, pod corn, popcorn, hybrid cells, New
plants, thermoregulation, solar radiation, thermal radiation,	World archeology, plant genetic experiment and archeological finds
transpiration, energy transfer, heat transfer in plant leaves	point to pool corn as wild ancester of maise 1950 July p. 20-24 [26]
1965 Dec. p. 76-84 [1029] continental drift, plate tectonics, sea-floor spreading, ocean ridges,	hybrid corn. agronomy, technology and promise of hybrid corn
Earth mantle, tensile-stress hypothesis 1969 Nov. p. 102–119	1951 Aug. p. 39-47 agricultural pest, corn borer, insect behavior, species specificity,
convection cells, Earth mantle, plate tectonics, driving force of	adaptation of parasite to host 1958 May p. 87-94
continental drift, large-scale circulation 1976 Nov. p. 72-89 [921]	New World archeology, agricultural revolution, Mexican agriculture,
in Earth's mantle 1949 Dec. p. 30 cooking, fire-making, human evolution, fire vegetation, Neolithic	urbanization, New World agricultural revolution
revolution, kiln, furnace, heat, introduction to single-topic issue on	1964 Nov. p. 29-37 [625] lysine, plant breeding, plant protein, agronomy, human nutrition,
heat 1954 Sept. p. 52-57	malnutrition, high-lysine corn 1971 Aug. p. 34-42 [1229]
cooling system, air conditioning, air vent, wind tower, domed roof,	gene-pool bank 1951 Sept. p. 60
architecture, passive cooling systems in Iranian architecture 1978 Feb. p. 144-154 [705]	U.S. No. 13 dwarf corn 1958 Oct. p. 54 crop yield, oriented planting 1959 May p. 76
cooling towers, heat exchange, industrial cooling, energy technology,	crop yield, oriented planting 1959 May p. 76 lysine, opaque-2 lysine-rich corn 1965 Aug. p. 44
microclimate 1971 May p. 70-78	reinstatement of teosinte 1973 Jan. p. 44
cooperation, competition, social psychology 1950 Apr. p. 54-56	see also: maize
cooperative enzymes, enzymes, protein synthesis, hemoglobin, myoglobin, control systems, feedback, allosteric enzymes, control of	com borer, agricultural pest, insect behavior, species specificity, corn. adaptation of parasite to host 1958 May p. 87-94
biochemical reactions 1965 Apr. p. 36-45 [1008]	adaptation of parasite to host 1958 May p. 87-94 corner reflector, Apollo project, laser reflection, moon, orbital motion,
coordination of movement, eye-head coordination, sensory feedback,	lunar-ranging experiment, Earth-Moon distance measurement
visual targeting 1974 Oct. p. 100-106 [1305] copeped lipids, biological wax, coral reef wax, marine wax, metabolic fuel,	1970 Mar. p. 38–49
food chain 1975 Mar. p. 76–86 [1318]	corona, chromosphere, eclipse phenomena, photosphere, solar corona, Sun
Copernican revolution, Bruno, science history, Galileo's heresy.	corona chemistry, catalysis, corona discharge, free radicals, ozone,
martyrdom of Giordano Bruno re-examined 1973 Apr. p. 86-94	polymerization, water purification, hydrocarbon cracking
English poetry, 'Space Rapture' 1977 June p. 120–129 [367] Copernicus, calendar, solar system, planetary motion, time, heliocentric	1965 June p. 90–98
theory, year, astronomy, astronomy, Copernicus, length of calendar	corona discharge, alternating current, electric power, high-voltage transmission, power transmission, hydroelectric power generation.
364 Dci n 25-02	economic advantages of high-voltage transmission
planetary motion models, Tycho Brahe, solar system, science history, Tycho's notes in de Revolutionibus 1973 Dec. p. 86-101	1964 May n. 20 47
as physician 1973 Oct p. 48	catalysis, tree radicals, ozone, polymerization, corona chemistry, water
coping behavior, psychosomatic illness, rats, stress	air pollution, electrocoating. Ily ash, electrostatics, photocopying
1972 June p. 104-113 [544]	xerography, electrostatic precipitation and seperation
	1972 Mar. p. 46-58

addiction, LSD, psychosis, psilocybin, mesca	mental health, drug	species dispersion, fossil record, evolution, plate	tectonics
indiction, 2015, phychosis, psinocyom, mesca	inne, effects of LSD 1964 Apr. p 29-37 [483	10	972 Nov n 56_66 19031
conservation, UN conference	1949 May p 2	. Conditional distribution of the conditional distribution of	formation, Indian-
conservation of vector current	1963 Ann n 0	3	te tectonics, sea floor
conservation law, Helmholtz resonators, matter co	inservation.	biosphere, marine biology, ocean evolution, Pang	973 May p 62-72 [908]
ophthalmoscope, science history, Hermann ve biography		19	974 Apr p 80–89 [912]
matter, energy, momentum, high-energy physics	1958 Mar. p 94-102	2 contracting-Earth theory, science history, Pangae	ea, plate tectonics,
particle physics	1963 Oct p 36-45	Wegener's hypothesis	1975 Feb p 88-97
high-energy physics, baryons, mesons, strong	' force.		1977 Mar p 92-104
'eightfold way', Regge trajectory, resonance's	particles', 'bootstrap'	mountain formation, carthquake zones, Gobi De formation, India-Eurasia collision, plate tector	seri, Himaiaya
hypothesis	964 Feb p 74-93 1296	spreading Tibetan plateau	1977 Apr p 30-41
upheld by court	1950 Jan p 30	radioactive dating and remanent magnetism	1963 June p 73
conservation of strangeness, high-energy physics s muon, sorting out the multiplicity of particles	trange particles, pions,	paleomagnetic evidence of its intermittance	1967 Dec p 50
l l	957 July p 72-88 [213]	fossil amphibian in Antarctica Australia-Antarctica land mass	1968 Apr p 43 1969 Aug p 50
constancy effect, visual perception, color vision, ne	cutral colors	see also plate tectonics	1303 Aug p 30
196	3 Jan p 107-116 [474]	continental evolution, Earth crust, volcanoes, island	arcs, sedimentation,
constrained-layer damping, noise control, vibration	i, viscoelastic material	origin of the continents 195.	5 Sept p 62-66 [816]
construction technology, radar domes, building cor	1969 Jan p 98-106		sedimentary rock,
buildings	1956 June p 131-138	Apallachian foldbelt 1973 continental shelf, ocean floor, submarine canyons	2 Mar p 30-38 [899] 1949 Apr p 40-43
building codes, building construction, housing		continental terrace, onlap process, offlap process,	geology
19	71 Mar p 16-25 [341]	1955	Mar p 82-86 [808]
wind bracing, skyscrapers, Eiffel Tower, cantiles		ocean floor, submarine canyons, turbidity currents	, submanne
frame construction, curtain wall heat reflection, from a roof paint	1974 Feb p 92-105 1954 June p 46	avalanches and topography of ocean floor	1956 Aug p 36-41
tapered columns stronger	1968 July p 55	bathymetry, sonar, gravimetry, ocean floor, sedime Geophyscial Observatory	1956 Dec p 83-94
plastic roof	1969 May p 56	plant migration, oceanography, New World archeo	
consumer-product research, consumer protection, e	nergy conservation,	migration, Bering land bridge, glaciation, Wiscon	nsın glacıatıon,
household appliances, product safety, product		animal-plant migration, Asia-North America	962 Jan p 112-123
consumer protection, consumer-product research, e	1977 Dec p 47–53	glaciation, ocean, shelf sediments, marine geology	ept p 106-122 [882]
household appliances, product safety, product		continental shelf exploitation, saturation diving, under	water shelters,
	1977 Dec p 47-53	decompression, diving, oceanographic exploration	n
contact binaries, stellar evolution, tidal effects, grav		1966 N	Mar p 24–33 [1036]
stars, stellar fission containerization, cargo handling, shipping, automat	1968 June p 34-40	continental terrace, continental shelf, onlap process, or geology 1955	Mar p 82-86 [808]
transport	1968 Oct p 80-88	continental uplift, glaciation, a theory of glaciation	1952 Aug p 57-59
marine technology, drilling platforms, ocean, sup-	ertankers,	ocean floor placiation sea level sea level variations	70.70
submersibles, technology and the ocean 1969	Sept p 198-217 [887]	continuous casting, steel production, metallurgical engi	1960 May p 70-79
content analysis, newspapers, military secrecy, Cong investigation, 'Condon case', content analysis of	ressional if newspaper coverage	advantages	1963 Dec p 74-88
of political attacks on E U Condon	1949 Feb p 16-21	continuous processing, automatic control, fluid dynami	ics, petroleum
dreams, 10,000 dreams	1951 May p 60-63	refinery control nanel automatic chemical plant	952 Sept p 82-96
television, allocation of time, a critical review by e	educators 1951 June p 15-17	contour perception, contrast perception Mach bands, n	1932 Sept p 02 70
context sensitivity, verbal communication, communi		ontical illusion, visual perception, Crail -O'Brien 6	ffect
formants, phonetics, markedness/unmarkednes	s dyad, morpnemes,	1972 Ju	ne p 90-101 [242]
cuntar invariant/variable dvad	1912 Sept p 12-80	optical illusion, visual perception 1976 A contraception, birth control, reproduction ovulation, ni	Apr p 48-52 [570]
continental drift, remanent magnetism, plate tectonic arcs, Wegener hypothesis re-stated with new evi	is, ocean 11001, island dence, age of 10cks	fertilization	954 Apr p 31-34
1963	Apr p 80-100 [808]	birth rate, birth control, family planning family size	US population
evolution, Infra-Cambrian Ice Age, glaciation, fos	sil record,	trends, acceptance of contraception 19 abortion, birth control, family planning, population of	959 Apr p 50-55
maleomagnetism	1904 Aug p 20-30	policy in U S	973 July p 17-23
glaciation, Gondwanaland, Laurasia, paleomagnet sea-floor spreading, supercontinents, plate tecto	nics, commentat	research objective	1953 Aug p 48
deft confirmed 1900	S Apr p 32-04 (0/4)	'morning after pill'	1966 June p 56 1968 Dec p 50
sea-floor spreading, magnetic reversals, crustal mo-	vement, 3 Dec p 60-70 [875]	Roman Catholics see also birth control	1900 Dec p 00
earthquakes plate tectonics 1900	Dec h gone (ass)	contractile proteins, flagella, keratin, myosin epidermis "	k m e f ' group
speciation, Gondwa.	ontinent	motility in bacteria 19 contracting-Earth theory, continental drift science history	951 Jan p 20–24
1909	Mai p 54-64 [877]		75 Feb p 88-97
- I - I	Sept p 66-75 [888]	contraction, fixed point theorems, mathematics, topology	surface
descending ocean ridges, of	onvection currents,	deformation 1966	Jan p 105-110
Earth mantle, tensile-stress hypothesis	969 Nov p 102-119	contrails, aerodynamics, aircraft-wake vortexes, flight safe wake turbulence 1974	4 Mar p 76-83
A C Amunola Dad Sea Rift Valley, guyon, Gun of	Aden, sea-1100r	contract percention, contour perception. Mach bands, neur	ronal response
spreading sea-moor spreading opens not	Feb p 32-40 [891]	optical illusion, visual perception, Craik-O'Brien effect	20
t the control can floor spread	ding Earth crust,	spatial frequency, visual perception, visual thresholds	p 90-101 [543]
Thassic period, Pangaea, computer model	Oct n 30-41 [892]	1974 Nov p	106-114 [1308]
breakup of Pangaea traced	on zones, mountain	contt	positive is system
formation, plate tectonics, sea-floor spreading, of	erview of the new	economic system automatic control, feedback concept	
geology 1972	May p 56-68 [900]	1952 :	Sept p 48-55

evolution, thermonuclear energy 1971 Sept p 50-59 [662]	Coulomb, friction, Leonardo, technology history, sliding surfaces,
cosmology, solar system, Sun, dust cloud hypothesis, gravity, light	molecular cohesion, 'coppering' 1951 Feb p 54-58
pressure, gravitational collapse, thermonuclear reaction, genesis of	Coulomb force, electromagnetism, molecular physics, intermolecular
	force, measurement of intermolecular force between macroscopic
	bodies 1960 July p 47–53
red shift, galactic recession, element abundance, 'synthetic' elements,	Coulomb's law, electromagnetic radiation, photon, quantum mechanics,
	Comomo's law, electromagnetic radiation, photon, quantum mechanics,
Palomar Observatory, Hale telescope, Schmidt telescope, galactic	mass of photon 1976 May p 86–96
survey, 200-inch and 48-inch Palomar telescopes	counter-current exchange, kidney, urine, nephron, glomerulus, osmosis,
1948 Aug p 12–17	anatomy and physiology of the kidney 1953 Jan p 40–48 [37]
Palomar Observatory, red shift, stellar populations interstellar matter,	rete mirabile, heat conservation, physiology, swim bladder, kidney, gill,
galactic evolution, Hale telescope, first yield from 200 inch telescope	physics of a physiological invention 1957 Apr p 96
1952 Feb p 43–51	counterfeiting, coins, numismatics, Roman Britain 1974 Dec p 120-130
universe expansion, Olber's paradox, world lines, curvature of space,	counterforce strategy, military deterrence, arms control, arms race,
red shift, galactic evolution, evolutionary universe, element	atomic weapons, USA-USSR negotiating postures
formation, genesis 1954 Mar p 54-63	1962 Apr p 45–53
politics, Laplace, physics, life and work of Pierre Simon de Laplace	fallout shelters, civil defense, arms race, social psychology, social
1954 June p 76–81	impact of fallout shelters 1962 May p 46-51 [637]
astronomy, philosophy of science, galactic clusters, universe, planetary	radar blackout, atomic warfare, arms race, ABM, ICBM, US ABM
motion, solar system, introduction to single-topic issue on the	system capabilities and limitations 1968 Mar p 21-31
universe 1956 Sept p 72–81	ABM, MIRV, SALT, deterrence, ICBM, arms race, dynamics,
universe evolution, 'big bang' theory, universe, space curvature,	instability of arms race 1969 Apr p 15-25 [642]
according to Gamow 1956 Sept p 136–154	ABM, arms race, ICBM, MIRV, SLBM, mutual assured destruction,
energy transformation, universe, steady-state universe, according to	strategic balance, national security 1969 Aug p 17–29 [330]
Hoyle 1956 Sept p 157–166	atomic weapons, arms race, SALT, MIRV, mutual assured destruction,
red shift, universe expansion, universe, spectroscopy, galaxies	MIRV, as key to SALT negotiations 1970 Jan p 19–29 [654]
red sint, universe expansion, universe, spectroscopy, garaxies	ABM, ICBM, MIRV, atomic armaments, strategic weapons, mutual
recession velocity, galactic clusters, observational cosmology	
1956 Sept p 170–182 [240]	
galactic clusters, probability, universe, gravitation, Monte Carlo	mutual assured destruction, military expenditures, SALT, arms race,
method, distribution of galaxies as test of cosmologies	MIRV, MARV 1974 May p 20–31
1956 Sept p 187–200	atomic weapons, cruise missiles, MIRV, arms race, missile accuracy,
universe evolution, science history, philosophy of science, a skeptical	strategic weapons, CEP, accuracy as multiplier of force
view of cosmology 1956 Sept p 224–236	1975 July p 14–23
antimatter, high-energy physics, antiproton, antineutron, Bevatron,	counters, see Geiger counter, scintillation counter
'universon', 'cosmon', 'anticosmon' 1958 Apr p 34–39	courtship display, sexual behavior, animal behavior 1950 July p 52-55
antimatter, Leidenfrost phenomenon, Zeeman effect, Klein theory,	stickleback, animal behavior, sexual behavior, displacement activity,
high-energy physics, high-energy physics and cosmology	ethology 1952 Dec p 22–26 [414]
1967 Apr p 106–114 [311]	gulls, animal behavior, releaser stimulus, displacement activity,
universe expansion, cosmic background radiation, 'big bang' theory,	ethology 1954 Nov p 42–46
low-energy radiowaves, isotropy, primeval fireball, helium	bowerbirds, sexual behavior, animal behavior, arena behavior,
abundance, 'big bang' theory and cosmic background radiation	Australian bowerbird, natural history 1956 June p 48–52
1967 June p 28–37	arena behavior, bowerbirds sexual behavior animal behavior, releaser
quasars, red shift, universe expansion 1971 May p 54-69	stimulus, ethology, natural history 1963 Aug p 38–46 [1098]
Apollo samples, carbon chemistry, moon, solar wind	animal behavior, turkeys, pecking order, sexual behavior, lek behavior,
1972 Oct p 80–90	Welder Wildlife Refuge 1971 June p 112–118
'big bang' theory, deuterium-hydrogen ratio, deuterium synthesis,	insect behavior, bee dances, pheromones, sex attractants
heavy hydrogen, interstellar matter 1974 May p 108-118	1972 Sept p 52-60 [1280]
'big bang' theory, 'closed' universe, 'open' universe, universe expansion,	courtship song, fruit fly, sexual behavior, releaser stimulus, insect
deuterium abundance, age of elements, average density	behavior, species specificity 1970 July p 84-92
1976 Mar p 62–79	covalent bonds, ionic bonds, hydrogen bonds, Van der Waals force, long-
heavier radioactive elements 1956 June p 60	range forces, chemical bond, antigen-antibody reaction, proposed
biggest red shift 1956 Oct p 66	intermolecular long-range force 1948 Oct p 14-17
Cepheid variable, intergalactic yardstick lengthens 1958 Sept p 86	solid state physics crystal structure, X-ray diffraction, ionic bonds
universe expansion, electrostatic repulsion explanation of expansion	metallic bonds, molecular bonds, energy levels the nature of solids
1959 Oct p 84	1952 Dec p 39-49 [249]
steady-state universe vs 'big bang', NGC 188 1960 Mar p 85	aluminates, materials technology, ceramics crystal structure, silicates,
cosmological uncertainty 1960 Sept p 102	heat resistance, ionic bonds, nature of ceramics
Einstein-De Sitter universe 1961 Feb p 74	1967 Sept p 112–124
heavy-element formation, plutonium 244 1971 June p 54	materials technology, polymers natural polymers, plastics, cross-
most distant object, quasar OH471 1973 June p 38	linking 1967 Sept p 148–156
a 12th century European school 1978 Jan p 68	cowpox, medical history, smallpox immunization, variolation
cosmotron, particle accelerator, Bevatron, high-energy physics,	vaccination, vaccination before Jenner 1976 Jan p 112-117
technology of high-energy physics moves into the Giga (billion) volt	Coxsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo
range 1951 Feb p 20-25	viruses, epidemiology, benign and infectious intestinal viruses
up to 2 2 Bey 1952 July p 34	1959 Feb p 88–97
cosmotron outage, cooling system leak 1955 Jan p 44	CP. charge parity
cost assessment, nuclear power, capital cost, energy economics,	CD
competitive with fossil fuels 1951 Jan p 32–38	CP: invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time
input output analysis, interchangeability of materials price trends,	CPT conservation, time reversal, symmetry, parity, charge conservation,
materials technology, metals plastics competition among materials	lambda decay, proton spin experiments in time reversal
1967 Sept p 254–266	
cost of hing, household appliances 1974 Sept. p. 74	1969 Oct p 88-101 CPT mirror, parity, symmetry, time reversal, mirror images
'cost-push' inflation, 'demand pull', economic analysis inflation, input-	1065 Dag = 20 26 (201)
output analysis 1971 Nov p 15–21	CPT symmetry, antigravity, time reversal antimatter, probability,
cotton, mildew-proofed 1953 Oct. p. 58	philosophy of science 1067 to 200 ton
cotton picker, mechanical harvesting, agricultural technology, tomato	Cash Mahata
harvester hay cuber, cherry picker grain combine	radio star, supernovae, stellar evolution 1949 Dec p 18–21
1067 Aug = 60 60	
1967 Aug p 50-59	stars counted some speculation on their nature 1953 Jan p 17-21

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Earth's weather and solar wind 1957 Apr p. 138–148 184	cosmic dust grains, interstellar matter, ultraviolet radiation, hydrogen
Earth's weather and solar wind 1957 Apr p 138–148 [84 coronary bypass, arteriography, heart surgery, atheroselerosis, coronary	1055 Nov. n. 72 00
occlusion 1968 Oct n 36	cosmic masers, maser, hydroxyl maser, water maser, maser star,
coronary care unit, cardiac arrhythmia, intensive care, fibrillation	imitate and
coronary occlusion, electrocardiography, nerve conduction, heart	Cosmic radiation, elementary particles, son teams accordance design
intarct 1968 July p. 19-2	high-energy physics 1949 Mar p 28–39
coronary disease, carcinogenesis, cigarette smoking, tobacco, human	massive nuclei 1051 May n 26 20
physiology, lung cancer, effects of smoking 1962 July p 39-5	stellar magnetic fields, radio emissions, megnetohydrodynamics
arteries, atheroselerosis, medicine, thrombus, monoclonal hypothesis, plaque formation 1977 Feb p. 74, 85 1135	electrical induction, electricity in space 1952 May p 26-29
277 100 p 74-03 1133	
etiology of heart disease in U S 1957 Dec p 6 soft water 1969 June p 5	0
survival kit 1972 Aug p 4	
coronary occlusion, heart attack, etiology and course of a principal cause	, , , , , , , , , , , , , , , , , , , ,
of death 1950 June p. 44-4	1954 Apr p 38-40 meteorites, helium content, origin of meteorites 1954 Nov p 36-41
cardiac arrhythmia, heart, muscle contraction, cardiac pacemaker.	photographic emulsion, particle tracks, neutron, proton, electron,
operation of cardiac pump 1957 May p. 74-87 (62	characteristic 'signatures' of particles 1956 May p 40-47
atherosclerosis, cardiovascular disease, human nutrition, arteries.	artificial satellite, solar particles, telemetry, Van Allen belts,
epidemiology, cholesterol, diet, lipids, plaque, artery wall	geomagnetism, radiation belts, space exploration, mapping of
1966 Aug p 48-50	The state of the s
cardiac arrhythmia, intensive care, coronary care unit. fibrillation,	galactic magnetism, supernovae, cosmic ray showers, evidence for
electrocardiography, nerve conduction, heart infarct	particles of 10 ¹⁸ ev energy 1959 Nov p 134-146
1968 July p 19-27 arteriography, heart surgery, atherosclerosis, coronary bypass	solar particles, geomagnetism, galactic magnetism, galactic accelerator theory 1960 June p 64-71
1968 Oct p 36-43	
corpus callosum, cerebral cortex, mammalian brain, brain hemispheres,	proposed origin of cosmic rays 1964 Nov p 38-47
split-brain experiments, monkey, cat, human post-operative subject	interplanetary space, Mars, Mariner 4, magnetosphere,
1964 Jan p 42-52 (174)	micrometeorites, trapped radiation, atmosphere, solar wind, space
brain hemispheres, cerebral dominance, perception, split-brain	exploration 1966 May p 62–72
experiments, intelligence, language, localization of brain function	radio galaxies, quasars, galactic halo, radio astronomy, radio source,
1967 Aug p 24-29 [508]	extragalactic radio source as origin of cosmic rays 1966 Aug p 32–38
corpuscular streams, matter, wave-particle duality, energy levels, electromagnetic force, nuclear forces, gravitation, field theory,	cosmic ray showers, supernovae, galactic halo, synchrotron radiation
fundamental research, quantum jumps, what is matter?	particle acceleration, abundance, energies, sources of cosmic rays
1953 Sept p 52-57 [241]	1969 Feb p 50-63
aurora, magnetic storms, sunspots, cone of avoidance, solar wind, solar	nuclear tracks fission-track dating etching ionizing radiation,
rotation, cycles in 'solar wind' 1955 Feb p 40-45	applications of charged-particle tracks in solids 1969 June p 30-39
Sun, radio emissions, sunspots, magnetic storms 1955 June p 40-44	solar radiation, neutrino, solar neutrino detector, thermonuclear
Earth, aurora, airglow, solar spicules, nightglow, aurora and airglow	reaction, neutrino detection experiment and predictions 1969 July p 28–37
1955 Sept p 140–150 correlation analysis, public opinion, voters' attitudes, voting behavior,	nulear radio emissions superdense matter supernovae
ethnic groups, income, social status, family, 'votes in the making'	puisar, radio chassions, superdense matter, supernovae
1950 Nov p 11–13	cormogenic behum meteorite radioactivity solar system evolution
correlation theory, Galton, eugenics, dermatoglyphics, life and work of	smallation of meteorites 1973 July p 04-73
Francis Galton, regression to mean 1954 Jan p 72-76	interplanetary fields, interplanetary particles, magnetosphere, solar
corrosion, rust, technetium, oxidation, studies in corrosion	flares, solar wind, aurora, Van Allen belts, solar system 1975 Sept p 160-173
1956 May p 35–39	blad bala samma ray attronomy maytron stars mylear satellite
materials technology, wear, adhesive wear, abrasive wear, fatigue wear, surfaces in sliding contact 1962 Feb p 127-136	notronomy Cyanus X-1 1976 UCL D 00-771
corrosion tunnel, stress-corrosion failure, crystal structure, dislocations,	solar system origin argued 1949 Aug P 24
metalliding 1966 Feb p 72–81	indium 49 recorded 1951 Dec p 30
Corrugaborn, acquistic toys Hummer 1974 June p 56	U.S. Explorer radiation studies 1958 June p 44 origin of high-energy rays 1960 Nov. p 91
cortisone. ACTH, inflammation, degenerative diseases, hormone, stress,	1001 Apr D 75
experience with and appraisal of two hormonal drugs 1950 Mar p 30-37 [14]	detection of primary electrons 1961 Apr P 70 origin in supernovas 1964 Feb p 71
	cosmic radiation neutrinos, neutrino, solar neutrinos, intermediate vector
steroid hormones, vitamin D, sex hormones, cholesterol 1955 Jan p 52-60 [8]	hason countillation counter boson, detection of natural neutrino
actinomyosin, ecdysone, insulin, estrogens, gene activation, RNA	1986 Feb p 40-10
synthesis, aldosterone, growth hormone, AC1H, thyroxin,	cosmic ray showers, cosmic radiation, galactic magnetism, supernovae, evidence for particles of 10 ¹⁸ ev energy 1959 No. p 134-146
mechanism of hormone action 1965 June p 36-43 [1013]	cosmic radiation, supernovae, galactic halo, synchrotron radiation,
ACTH, conference on potent new drugs 1949 Dec p 28	particle acceleration shundance energies sources of COSMIC III)
cheaper synthesis	1969 Peb p 30-03
from progesteron corundum, crystal structure, cubic boron nitride, diamond, hardness,	'cosmic yardstick', Cepheid variable, galactic evolution, universe
	evolution [1959 July p 48-55]
to demound reduction cosmology, universe expansion, Dig valig	cosmogenic helium, cosmic radiation, meteorite radioactivity, solar system evolution, spallation of meteorites 1973 July p 64-73
Al low energy radiowaves isotropy, primeval lifeban, neutil	as a mala significant control arm argument for a plutton any hypothesis
abundance, 'big bang' theory and cosmic background radiation 1967 June p 28-37	1959 July P od
evolutionary universe, universe expansion, radio galaxies, 'big bang'	radio telescope promises evidence
11 (9/4 Aug U 20-33	Xenon 129 supports 'steady state' theory 1960 Apr p 85
'hig hang' theory, ether drift, Hubble constant, amsotropy in 3-degree	cosmological distance, spectroscopy, quasars, recession velocity, red shift
Kelvin radiation	whether quasars are intra- or extra-galactic 1966 Dec p 40-52 [305]
Earth rotation, 'new ether drift' Earth's relative movement 1967 May p 54 1977 Nov p 70	cosmological 'hangups', celestial energy, energy cycle, power, radiation
cosmic distribution, elements element abundance 1950 Oct p 14-17	energy, entropy per unit energy, gravitational energy, stellar

evolution, thermonuclear energy 1971 Sept p 50-59 [662]	Coulomb, friction, Leonardo, technology history, sliding surfaces,
cosmology, solar system, Sun, dust cloud hypothesis, gravity, light	molecular cohesion, 'coppering' 1951 Feb p 54-58
pressure, gravitational collapse, thermonuclear reaction, genesis of	Coulomb force, electromagnetism, molecular physics, intermolecular
solar system 1948 May p 35–45	force, measurement of intermolecular force between macroscopic
red shift, galactic recession, element abundance, 'synthetic' elements,	bodies 1960 July p 47–53
universe expansion 1948 July p 20–25	Coulomb's law, electromagnetic radiation, photon, quantum mechanics,
Palomar Observatory, Hale telescope, Schmidt telescope, galactic	mass of photon 1976 May p 86–96
survey, 200-inch and 48-inch Palomar telescopes	counter-current exchange, kidney, urine, nephron, glomerulus, osmosis, anatomy and physiology of the kidney 1953 Jan p 40-48 [37]
1948 Aug p 12–17	rete mirabile, heat conservation, physiology, swim bladder, kidney, gill,
Palomar Observatory, red shift, stellar populations, interstellar matter,	physics of a physiological invention 1957 Apr p 96
galactic evolution, Hale telescope, first yield from 200 inch telescope 1952 Feb p 43-51	counterfeiting, coins, numismatics, Roman Britain 1974 Dec p 120–130
universe expansion, Olber's paradox, world lines, curvature of space,	counterforce strategy, military deterrence, arms control, arms race,
red shift, galactic evolution, evolutionary universe, element	atomic weapons, USA-USSR negotiating postures
formation, genesis 1954 Mar p 54–63	1962 Apr p 45–53
politics, Laplace, physics, life and work of Pierre Simon de Laplace	fallout shelters, civil defense, arms race, social psychology, social
1954 June p 76–81	impact of fallout shelters 1962 May p 46-51 [637]
astronomy, philosophy of science, galactic clusters, universe, planetary	radar blackout, atomic warfare, arms race, ABM, ICBM, US ABM
motion, solar system, introduction to single-topic issue on the	system capabilities and limitations 1968 Mar p 21–31
universe 1956 Sept p 72–81	ABM, MIRV, SALT, deterrence, ICBM, arms race, dynamics,
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energy transformation, universe, steady-state universe, according to Hoyle. 1956 Sept. p. 157–166	atomic weapons, arms race, SALT, MIRV, mutual assured destruction,
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recession velocity, galactic clusters, observational cosmology	ABM, ICBM, MIRV, atomic armaments, strategic weapons, mutual
1956 Sept p 170–182 [240]	assured destruction, arms race 1973 Nov p 18-27
galactic clusters, probability, universe, gravitation, Monte Carlo	mutual assured destruction, military expenditures, SALT, arms race,
method, distribution of galaxies as test of cosmologies	MIRV, MARV 1974 May p 20–31
1956 Sept p 187–200	atomic weapons, cruise missiles, MIRV, arms race, missile accuracy,
universe evolution, science history, philosophy of science, a skeptical	strategic weapons, CEP, accuracy as multiplier of force
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antimatter, high-energy physics, antiproton, antineutron, Bevatron,	counters, see Geiger counter, scintillation counter
'universon', 'cosmon', 'anticosmon' 1958 Apr p 34-39 antimatter, Leidenfrost phenomenon, Zeeman effect, Klein theory,	courtship display, sexual behavior, animal behavior 1950 July p 52–55 stickleback, animal behavior, sexual behavior, displacement activity,
high-energy physics, high-energy physics and cosmology	ethology 1952 Dec p 22–26 [414]
1967 Apr p 106–114 [311]	gulls, animal behavior, releaser stimulus, displacement activity,
universe expansion, cosmic background radiation, 'big bang' theory,	ethology 1954 Nov p 42–46
low-energy radiowaves, isotropy, primeval fireball, helium	bowerbirds, sexual behavior, animal behavior, arena behavior,
abundance, 'big bang' theory and cosmic background radiation	Australian bowerbird, natural history 1956 June p 48–52
1967 June p 28–37	arena behavior, bowerbirds, sexual behavior, animal behavior, releaser
quasars, red shift, universe expansion 1971 May p 54–69	stimulus, ethology, natural history 1963 Aug p 38–46 [1098]
Apollo samples, carbon chemistry, moon, solar wind	anımal behavior, turkeys, pecking order, sexual behavior, lek behavior, Welder Wildlife Refuge 1971 June p 112–118
1972 Oct p 80–90 'big bang' theory, deuterium-hydrogen ratio, deuterium synthesis,	Welder Wildlife Refuge 1971 June p 112–118 insect behavior, bee dances, pheromones, sex attractants
heavy hydrogen, interstellar matter 1974 May p 108–118	1972 Sept p 52–60 [1280]
'big bang' theory, 'closed' universe, 'open' universe, universe expansion,	courtship song, fruit fly, sexual behavior, releaser stimulus, insect
deuterium abundance, age of elements, average density	behavior, species specificity 1970 July p 84–92
1976 Mar p 62–79	covalent bonds, ionic bonds, hydrogen bonds, Van der Waals force, long-
heavier radioactive elements 1956 June p 60	range forces, chemical bond, antigen-antibody reaction, proposed
biggest red shift 1956 Oct p 66	intermolecular long-range force 1948 Oct p 14-17
Cepheid variable, intergalactic yardstick lengthens 1958 Sept p 86 universe expansion, electrostatic repulsion explanation of expansion	solid state physics, crystal structure, X-ray diffraction, ionic bonds, metallic bonds, molecular bonds, energy levels, the nature of solids
1959 Oct p 84	1952 Dec p 39–49 [249]
steady-state universe vs 'big bang', NGC 188 1960 Mar p 85	aluminates, materials technology, ceramics, crystal structure silicates,
cosmological uncertainty 1960 Sept p 102	heat resistance, ionic bonds, nature of ceramics
Einstein-De Sitter universe 1961 Feb p 74	1967 Sept. p. 112–124
heavy-element formation, plutonium 244 1971 June p 54	materials technology, polymers, natural polymers, plastics, cross-
most distant object, quasar OH471 1973 June p 38	
	linking 1967 Sept. p. 148–156
a 12th century European school 1978 Jan p 68	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation,
cosmotron, particle accelerator, Bevatron, high-energy physics,	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20-25	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20–25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses CP: charge parity
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20–25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics,	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20-25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32-38	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Coxsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20-25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32-38 input-output analysis, interchangeability of materials, price trends.	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity charge conservation
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20-25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32-38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal
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cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20-25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32-38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials 1967 Sept p 254-266 cost of living, household appliances 1976 Sept p 74 'cost-push' inflation, 'demand-pull', economic analysis, inflation, input-output analysis 1971 Nov p 15-21 cotton, mildew-proofed 1953 Oct p 58 cotton picker, mechanical harvesting agricultural technology tomato	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Covsackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal 1969 Oct p 88–101 CPT mirror, parity, symmetry, time reversal, mirror images CPT symmetry, antigravity, time reversal, antimatter, probability, philosophy of science 1965 Dec p 28–36 [301] Crab Nebula, supernovae, stellar evolution
cosmotron, particle accelerator, Bevatron, high-energy physics, technology of high-energy physics moves into the Giga (billion) volt range 1951 Feb p 20–25 up to 2 2 Bev 1952 July p 34 cosmotron outage, cooling system leak 1955 Jan p 44 cost assessment, nuclear power, capital cost, energy economics, competitive with fossil fuels 1951 Jan p 32–38 input-output analysis, interchangeability of materials, price trends, materials technology, metals, plastics, competition among materials 1967 Sept p 254–266 cost of living, household appliances 1974 Sept p 74 'cost-push' inflation, 'demand-pull', economic analysis, inflation, inputout analysis 1971 Nov p 15–21 cotton, mildew-proofed	linking 1967 Sept p 148–156 cowpox, medical history, smallpox immunization, variolation, vaccination, 'vaccination' before Jenner 1976 Jan p 112–117 Cosackie virus, enteroviruses, poliomyelitis virus, tissue culture, echo viruses, epidemiology, benign and infectious intestinal viruses 1959 Feb p 88–97 CP: charge parity CP invariance, superweak-force hypothesis 1967 Mar p 50 CPT: charge parity time CPT conservation, time reversal, symmetry, parity, charge conservation, lambda decay, proton spin experiments in time reversal 1969 Oct p 88–101 CPT mirror, parity, symmetry, time reversal, mirror images 1965 Dec p 28–36 [301] CPT symmetry, antigravity, time reversal, antimatter, probability, philosophy of science

universe Cossionais	
universe, Cassiopeia, radio galaxies, Cygnus A, red shift, colliding	neurophysiology, imagination, neuronal networks, cerebral cortex,
	physiology of imagination 1958 Sept. p. 135-146 [65]
synchrotron radiation, radio star, supernovae, natural synchrotron	psychology, imagination, psychological testing, psychology of
polarization, astronomy, supernovae, photometric observations of nov	imagination 1958 Sept. p. 150–166
X-ray astronomy, sychrotron radiation, Scorpius, neutron stars, X-ray	conditions favoring advance in science 1958 Sept. p. 170–178
astronomy by rocket-borne instruments 1964 June p. 36-4	
astronomy by rocket-borne instruments 1964 June p. 36-4 neutron stars, pulsar, radio source, stellar evolution, gravitational	
collapse, angular momentum 1971 Jan. n. 48-6	elaboration of colonial languages 1959 Feb. p. 124-134
collapse, angular momentum 1971 Jan. p. 48-6 natural synchrotron 1956 Jan. p. 4	
neutron star origin of X-rays disproved 1964 Sept. p. 8	
crabmeat, picking machine 1972 Sept. p. 6	7 7 The second of the second o
crabs, biological clock, diatoms, marine algae, sand hoppers, tidal-zone	
organisms, tidal rhythms, integration of biological and sidereal	Greek and Hebrew civilizations 1965 Feb. p. 102-111
cycles 1975 Feb. p. 70-79 [1316	cricket song, behavioral genetics, insect behavior, nervous system 1974 Aug. p. 34-44 [1302]
crankcase oil, as pollutant 1973 Feb. p. 48	
eratering, moon, meteorites, tectonic processes, origin of lunar craters	poverty, infant mortality, suicide, drug addiction, changes in
1949 July p. 20–24	American family structure 1974 Aug. p. 53–61 [561]
fossil crater, Chubb crater, meteoritic impact, astroblemes	eye-witness testimony, perception, memory, jury trial
1951 May p. 64–69	9 1974 Dec. p. 23–31 [562]
meteorite craters, fossil crater, fossil craters in Canadian Shield	crime detection, police laboratory, forensic chemistry
1958 July p. 32-39	
meteorites, projectile, impact crater, fluid impact, effect of high-speed	crime deterrence, 'warden's fallacy' 1971 May p. 50
impact 1960 Oct. p. 128–140	crime statistics, uniform crime report 1977 July p. 56
coesite, meteorites, astroblemes, shatter cones, fossil Earth-	criminal law, asocial behavior, behavioral psychology, human behavior,
catastrophes 1961 Aug. p. 50–58 [801]	nunishment criminology milieu therapy behavioral science and the
moon surface, spacecraft, lunar geology, lunar exploration, structure,	criminal law 1963 Nov. p. 39-43 [400]
history, origin of moon from nine spacecraft visitations	expert witnesses, insanity defense, M'Naghten rule, Durham rule,
1967 Mar. p. 60-74	psychiatrists as witnesses 1974 June p. 18-23
Mariner 6, Mars, Mariner 7, telemetry, orbital motion, polar cap,	insanity defense 1972 Nov. p. 51
television camera, surface pictures and map of Mars	criminal responsibility, evidence in brain waves? 1950 Apr. p. 36
1970 May p. 26-41	criminology, asocial behavior, behavioral psychology, criminal law,
bomb craters, ecological warfare, defoliation, laterization, Vietnam war	human behavior, punishment, milieu therapy, behavioral science and the criminal law 1963 Nov. p. 39-45 [480]
1972 May p. 20–29 [1248]	the criminal law 1963 Nov. p. 39-49 [700] critical field strength, superconductivity, low-temperature physics,
planets, solar system, Earth, Venus, Venutian atmosphere 1975 Sept. p. 70–78	superconductive motor, fluxtrap, superconductive bearing,
dust storms, Mars, terrestrial planets, tectonic processes, mountain	superconductive amplifier applications of superconductivity
formation, erosion, hydrology, solar system 1975 Sept. p. 106–117	1960 Mar. p. 14-02
meteorite bombardment, planetary ages, solar system evolution,	critical path scheduling, scheduling, combinatorial analysis, algorithms,
cratering of four inner planets as key to solar-system history	hin packing mathematication of afficiency
1977 Jan. p. 84-99 [351]	1978 Mar. p. 124-132 [3001]
ultramafic-mafic lava rock 1976 June p. 50	critical temperature, superconductivity, high pressure, critical
see also: astroblemes	temperature in certain metals increases with pressure 1971 Apr. p. 83-94
craters, Mercury, planets, solar system, Mariner 10 mission	Cra Manna ant Balcalishia Europa Mandalanian Aurignacian
1975 Sept. p. 58-68	Cro Magno art, Paleolithic Europe, Magdalenian, Aurignacian- Perigordian, cave paintings 1953 Aug. p. 30-33
creationism, Darwinism, evolution, Bryan, Darrow, Scopes trial, Scopes trial, U.S.A. 1959 Jan. p. 120-130	anagodila animal bahasian Nija anagodila nagontal care rentile
trial, U.S.A. Darwinism, evolution, religion, Scopes trial, science teaching,	1976 Apr. p. 114-12"
antievolution laws in U.S. 1969 Feb. p. 15-21	Crossus archeological execution Lydian civilization Sardis, 6th
science teaching evolution religion, curriculum reform, Darwinism,	century B.C. 1961 June p. 124-135
Rible high school, Man, a Course of Study, biological sciences	Cromwell Current, ocean circulation, subsurface Equator stream
curriculum study 19/6 Apr. p. 55–59	1961 Apr. p. 105-116
Darwinism Tennessee 'monkey law' repealed 1907 July p. 42	Crookes tube, cathode-ray tube, oscilloscope, vacuum tube, Ferdinand Braun's invention 1974 Mar. p. 92-101
Dominion textbooks in California 1970 Way p. 33	Braun's invention 1974 Mar. p. 92-101 crop yields, agronomy, plant breeding, rice, wheat, maize, food and
Darwinism, creationism in California textbook controversy 1971 Jan. p. 46	agriculture, plant genetics 1976 Sept. p. 180–194
	cropping systems, agricultural economics, agricultural system, food and
Darwinism, Mississippi court overturns 'monkey law'	agriculture 1976 Sept. p. 98-105
Darwinism, 'equal time' in California schools 1972 Aug. p. 43	cross-aved trait albinism gene mutation Siamese cat visual cortex.
Darwinism, equal time in California rescinded Darwinism, 'equal time' for creationism in California rescinded	white mink, white tiger 1974 May p. 44-54 (1254)
(715 1 co. p	cross-linking, materials technology, polymers, natural polymers, plastics, covalent bonds 1967 Sept. p. 148-156
Darwinism, creationist textbook banned from Indiana schools	covalent bonds 1967 Sept. p. 148-170 cross transfusion, between humans 1951 Oct. p. 36
2005 7 50	crow, ornithology, signal behavior, animal behavior, language of crows
creationists, lose Texas textbook fight 1965 Jan. p. 50	1959 Nov. p. 119-131
	crow-calls, animal behavior, bird semantics 1956 Aug. p. 52
science, introduction to single-topic issue 1958 Sept. p. 58–65	crowding, group behavior, rats, population density, comparative
analytic geometry. Fermat's last	psychology, social pathology of crowding
mathematical invention, set theory, analytic geometry 1958 Sept. p. 66–73 theorem, innovation in mathematical innovation in physics	1962 Feb. p. 139–148 [506] crown gall, cancer, plant tissue culture 1952 June p. 66–72
	cruise missiles, counterforce strategy, atomic weapons, MIRV, arms race,
physics, physical models, mathematical model, the 1958 Sept. p. 74–82	missile accuracy, strategic weapons, C.E.P., accuracy as multiplier of
biology, evolution, philosophy of science, natural selection, innovation 1958 Sept. p. 100-113 [48]	force 1975 July p. 14-23
in biology	arms race, SALT, strategic weapons, tactical weapons, control systems,
in biology invention, industrial research, applied science, solid state physics, Bell invention, industrial research, applied science, solid state physics, 1958 Sept. p. 116–130	navigation systems 1977 Feb. p. 20-29 [691]
Laboratories solid-state physics 1958 Sept. p. 110-130	

arms control, SALT, bombers, strategic weapons, Carter	diamond-crystal structure, synthetic diamonds, graphite-crystal
administration 'comprehensive proposal' for US-USSR. force	structure, synthesis at low pressure 1975 Nov p 102–109
	crystal structure, piezoelectricity, quartz, ultrasonic transducer, nature
	and uses of piezoelectricity 1949 Dec p 46-51
	chemistry, chemical bond, molecular structure, protein structure,
animal communication, fish communication, whale, porpoises, marine	chemical kinetics, science, chemistry 1900-1950 1950 Sept p 32–35
biology, animal sounds in the sea 1956 Apr p 93-102	chemical Americs, science, chemistry 1700-1730 1730 sept p 32-33
crustal movement, continental drift, sea-floor spreading, magnetic	solid state physics X-ray diffraction ionic bonds, covalent bonds,
reversals earthquakes, plate tectonics 1968 Dec. p. 60-70 [875]	metallic bonds, molecular bonds, energy levels, the nature of solids
crying, communication, infant behavior, neonatal disorder, mother-child	1952 Dec p 39-49 [249]
interaction, sound spectrogram 1974 Mar p 84-90 [558]	physics polygons, polyhedra, axis of rotation philosophy of science,
cry ogenic pump, spectroscopy, vacuum, ultra-high vacuum, oil diffusion	topological limits of physics 1953 Jan p 50-56
ery ogenic pump, spectroscopy, vacuum, ditta-night vacuum, on antiosom	metallurgy, zone melting, vacuum furnace, pure metals
pump, sputter-ion pump, mass, vacuum down to 10 ¹² mm of	1954 July p 36–40
mercury 1962 Mar p 78-90	
cryogenic storage, spermatozoon bank, tissue preservation, frostbite,	dislocations, edge dislocation, soap bubbles, slip planes
freezing of living cells 1956 June p 105–114	1955 July p 80–87 [204]
energy resources, hydrogen, electrolyzer technology, hydrogen-energy	neutron, radiation, nuclear fission, solid state physics, effects of
economy, liquified hydrogen, fuel cell 1973 Jan p 13-21	radiation on solids 1956 Aug p 76-84 [245]
cry ogenic technology, low-temperature physics, helium, superfluidity.	diffusion, metallurgy, wandering of atoms in crystal lattice
superconductivity 1949 June p 30–39 [206]	1957 May p 103-110
superconductivity, computer technology, superconducting computers	field-emission microscope, metals, pictures of atoms
superconductivity, computer technology, superconducting computers	1957 June p 113–122
1961 July p 124–136	
Stirling cycle, refrigeration, hot-air engine, closed cycle, displacer	cellulose, rayon, forest products, lignin, polymers, paper,
1965 Apr p 119–127	polysaccharides, overview of natural polymer 1957 Sept p 156-168
cryogenies, free radicals, frozen free radicals, free radicals trapped for	materials technology, metals, aligned crystals, alignment of crystals for
study 1957 Mar p 90-102 [263]	control of mechanical and magnetic properties
electrical resistance, superconductivity, magnetism, upper limit of	1959 Apr p 125–141
temperature of superconductivity 1957 Nov p 92-103 [227]	ionizing radiation, metals, solid state physics, displacement of crystal
sound energy, heat conduction, phonon, thermoelectricity, quantum	structure by radiation 1959 Sept p 200–213
mechanics of heat conduction 1962 Dec p 92–104 [288]	molecular motion, computer modeling, particle motion key to bulk
	properties of materials 1959 Oct p 113–126 [265]
fluid dynamics, liquid, supercooling, nucleation, crystal growth,	stress fracture, materials technology, metallurgy, cracks and fracture
behavior of supercooled fluids 1965 Jan p 38-46	
argon, crystal structure, noble gases, solid state physics, solid noble	1960 Feb p 94–104
gases 1966 Oct p 64-74	magnetism, ferrites, materials technology, microwave radiation,
supercooling, helium 3/helium 4 dilution, nuclear cooling, approaching	computer memory, industrial applications of iron oxides
absolute zero, Pomeranchuk method 1969 Dec p 26-35	1960 June p 92–104
heat, diffusion, solid state physics, thermal waves, second sound, wave	lattice defects, lattice dislocations observed 1961 Oct p 107–116
propagation, phonon, helium, thermal waves in solid helium	Fermi surface, metals, gross properties explained as quantum effects
1970 May p 92–101	1963 July p 110–120
cry ostat, see cryogenics, liquid helium, low-temperature physics	steel alloys, ausform process, materials technology, heat-treating for
cryptands, alkali-metal anions, alkali-metal cations, electron orbitals	strength 1963 Aug p 72–82
solvated electrons, quantum mechanics 1977 July p 92–105 [368]	boron, metalloid element, borane fuels, properties and applications of
cryptobiotic animals, animal behavior, metabolism, anaerobic	boron compounds 1964 Jan p 88–97
metabolism, suspended animation, Nematoda, Rotifera, Tardigrada	metals, whiskers, fiber-reinforced, dislocations, matrix, composite
1971 Dec p 30–36	materials, two-phase materials 1965 Feb p 28-37
cryptococcal meningitis, baking, yeast, brewing, riboflavin synthesis,	crystallography, electron diffraction, slow electrons as diffraction
fermentation, cell physiology, yeasts, useful and noxious	probe 1965 Mar p 32-41
1960 Feb p 136–144	corrosion tunnel stress-corrosion failure, dislocations, metalliding
cryptography, code security, computer privacy, data-bank confidentiality	1966 Feb p 72–81
1973 May p 15-23	boron, crystallography, X-ray diffraction 1966 July p 96-107
cryptology, Sumer, hieroglyphs, a 3,500-year-old agricultural handbook	argon, cryogenics, noble gases, solid state physics, solid noble gases
1951 Nov p 54-55	1966 Oct p 64-74
Linear B script, Homer, Minoan language, Greek civilization, an	crystallography, ice, water molecules snow crystals, migrating lattice
account of the decipherment 1954 May p 70-75	faults in ice 1966 Dec p 118-126 [307]
code, polyalphabetic systems, rotor machine, cipher, history and	alloys, eutectics, metallurgy, controlled eutectics, whiskers, controlled-
technology of making and breaking ciphers and codes	cooling magnets 1967 Feb p 86-92
1966 July p 38-46	helium, solid state physics, zero-point motion, quantum solid, solid
cryptosphere, cryptozoa, Berlese funnel, natural history, ecological niche,	
animal behavior, life under rocks and rotting logs	helium, physical and theoretical properties 1967 Aug p 84-95
	solid-state electronics, X-ray crystallography, metals, semiconductor,
1968 July p 108-114 [1112] cryptozoa, Berlese funnel, natural history, ecological niche, cryptosphere,	nonmetals, materials technology, amorphous solid electrical
animal behavior life veder seeds and a seed seed to the life veder seeds and the life veder seed	conductivity 1967 Sept p 80–89
animal behavior, life under rocks and rotting logs	alloys, materials technology, metals, grain boundaries, lattice defects,
1968 July p 108–114 [1112]	dislocations, electron 'gas', nature of metals 1967 Sept p 90-100
crystal defects, materials technology, solid state physics, epitaxial growth,	aluminates, materials technology, ceramics, silicates, heat resistance,
surface chemistry, precipitation in solids, 'doping', chemical	ionic bonds, covalent bonds nature of ceramics
properties of materials 1967 Sept p 210-220	1967 Sept p 112–124
crystal energetics, crystal structure, metallurgy, conduction electrons,	amorphous solid materials technology, glass, supercooling, geometry
quantum mechanics quasi particle concept, Fermi surface, metal	of glass two-phase glasses 1967 Sept p 126-136
properties 1973 Jan p 88–98	channeling, ion beam 1968 Mar p. 90, 98
crystal growth, spiral growth screw dislocation, loop growth	phase memory, photon echoes laser, nuclear-spin echo
1955 Mar p 74-80	1968 Apr n 22 40
surface defects, metal 'whiskers', lattice defects, growth of metal	Diags slaw, A-ray crystallography, atomic structure. Y-ray difference.
whiskers 1960 July p. 64-77	Found analysis 1060 Iul 60 70 from
condensation nuclei, snow crystals natural and artificial condensation	hithasis kidney calculi, X-ray diffraction bladder stones gallstones
nuclei 1961 120 p. 120 131	urinary calculi
fluid dynamics, liquid supercooling, nucleation cryogenics, behavior	metals X-ray diffraction bound state - hi

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metals, X-ray diffraction liquid state, physics of metals in the liquid state 1969 July p 72-82

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carrier-wave generator, communication technology, diode laser, laser,	cultural differences, split-style art, visual perception, cultural context of
heterostructure lasers, light-emitting semiconductor, solid-state	perception, Hudson test 1972 Nov p 82-88 [55]]
electronics 1971 July p. 32 46	perception, Hudson test 1972 Nov p 82-88 [551]
BCS theory, electrical properties of metals, intermetallic compounds	Protograph, vinea culture, withing Taltalia tablets,
interculated crystals, superconductors, layered superconductors	Romania, Sumer, Sumerian writing 1968 May p 30-37
1071 No. on on	similar symbolism from Tigris to Danubr 2,000 B C 1967 Aug p 40
Crystal energation matallyray conduction of 1971 Nov p 22–33	cultural evolution, agricultural revolution. Neolithic archeology, tools
crystal energetics, metallurgy, conduction electrons, quantum	slash-burn agriculture, Stone Age forestry and agronomy
mechanics, quasi-particle concept, Fermi surface, metal properties	1956 Mar n 36_41
1973 Jan p 88-98	sociology, anthropology, multilinear human culture changes
corundum, cubic boron nitride, diamond, hardness, materials	cy, was a paragraph of the changes
technology, Mohs scale 1974 Aug p 62-70	1956 May p 69–80
alloys, dendrites, metal casting, metallurgy, solidification of metal	Bunga, tools, settlement of bouth bear issued
1074 D	origin of Polynesians 1956 Aug p 58-72
dislocations formula and 16	
dislocations, forging, metal forming, strain hardening, creep in metals	making in biological evolution of man, introduction to single-topic
1975 Apr p 116–125	1960 Sept p 62–75 [601]
antimatter, gamma radiation, gravitational interaction, positron	demographics, population growth, agricultural revolution, Industrial
probes, solid state physics, scintigraph 1975 July p 34-42	Revolution, population explosion, human evolution, historical
circle-grid analysis, metal stamping, sheet-metal production, strain	
hardening, metal structure 1976 Nov p 100-108	perspective on human population growth, how many ever lived
crystals, calcite, calcium carbonate crystals, embryonic development,	1960 Sept p 194-204 [608]
	climate, hunter-gatherer societies, Nile prehistory, Paleolithic
sea urchin embryo 1977 Apr p 82–92	settlements, stone tools 1976 Aug p 30-38
atomic structure, disclinations, dislocations, molecular structure,	cultural patterns, Irish families, Italian families, schizophrenia,
periodic structures 1977 Dec p 130–145 [393]	schizophrenia and culture 1957 Aug p 103-110
polio virus architecture 1959 Aug p 65	communication, mass-communication media, message systems,
crystal surface waves, sound waves, communication technology,	television violence, sociology, mass communications as social
electronic equipment, Rayleigh waves, signal processing, ultrasonic	
	environment 1972 Sept p 152–160 [679]
1712 Oct p 20-00	cultural relativism, nonverbal communication, posture, anthropology
erystal surfaces, molecular surface films, monomolecular films, two-	1957 Feb p 122-132
dimensional crystals 1973 May p 30-40	culture, genetic adaptation, human evolution, natural selection,
crystallographic techniques, atomic structure, 'extended fine structure'	civilization, human evolution in man-made environment
effect, materials technology, X-ray absorption 1976 Apr p 96-103	1960 Sept p 206-217 [609]
crystallography, clathrates, inclusion compounds, gas hydrates, inclusion	culture as concent, anthropology, human evolution, science, anthropology
compounds in biology and technology 1962 July p 82-92 [280]	1900-1950 1950 Sept p 87-94
laser, light refraction, nonlinear optics, light interactions, ultraviolet	culture of poverty, group behavior, poverty, community action, subculture
radiation, photon 1964 Apr p 38–49	of Western market societies 1966 Oct p 19-25 [631]
magnetothermoelectricity, thermomagnetic cooling, semimetal, solid-	poverty, Mexico City, buying habits, sociology 1969 Oct p 114–124 [651]
state refrigeration 1964 June p 70–82	1909 Oct p 114 12 17
carbon, polyethylene, spherulites, plastics, solid state physics	Cumae, Greek civilization, Classical archeology, Italy, 8th c B C Greek colony first in Italy 1963 Dec p 108-121
1964 Nov p 80–94	colony first in Italy 1963 Dec p 100-121
electron diffraction, crystal structure, slow electrons as diffraction	cumulus clouds, trade wind clouds, climate, atmospheric circulation,
probe 1965 Mar p 32–41	ocean-atmosphere interface 1953 Nov p 31-35
Earth core, iron-nickel alloy, high-pressure technology, X-ray	cuneiform script, Sumer, law code, Lipit Ishtar, Hammurabi, earliest law
diffraction, core studies by analogy, diffraction patterns of iron	code 1865 B C 1948 June p 44-77
alloys 1965 June p 100–108	archeology, Sumer, law code, 3000 B C to 1500 B C, Ur, Nippur
boron, crystal structure, X-ray diffraction 1966 July p 96–107	1957 Oct p 70-65
ice, crystal structure, water molecules, snow crystals, migrating lattice	curare, learning, autonomic nervous system, heart rate, blood pressure,
	electrocardiography learning voluntary control of allfonomic
faults in ice 1966 Dec p 118–120 [30/]	nervous system 1970 Jan p 30-39 [525]
anthracene, photosynthesis, electron transfer, exciton, plants, organic	curiosity, fundamental research, science funding, 'mission-oriented'
crystals, conjugated aromatic hydrocarbons 1967 Jan p 86-97	funding agencies, university science, N S F, introduction to a single-
crystals, calcite, calcium carbonate crystals, crystal structure, embryonic	tunding agencies, university science, N.S.F., introduction to a 47-51
development, sea urchin embryo 1977 Apr. p. 82-92	topic issue on fundamental questions in science 1953 Sept p 47-51
CS gas, bacteria, chemical weapons, biological weapons, Vietnam war,	rhesus monkeys, problem solving, genetic traits, animal behavior 1954 Feb p 70-75
arms race, virus disease, rickettsiae, tear gas, herbicide, chemical-	1934 reb p 70
biological warfare 1970 May p 15-25 [1176]	current density, electron beam, cold cathode, X-ray photography, field emission 1964 Jan p 108-118
cubic boron nitride, corundum, crystal structure, diamond, narquess,	emission 1964 Jan p 100-110
materials technology. Mohs scale 1974 Aug p 02-70	currents, Corrolis effect, ocean circulation, wind effect, laboratory
threat anthropology 'national character', tribes 1949 Aug p 11-13	analogues 1970 Jan p 114-121 [390]
1 december 1 appointed 1 asmanians, Yumbii, I alliana,	curriculum reform, science curriculum, science teaching, high school, not
expectang primitive cultures 1937 May p 37-43	enough scientists and engineers 1954 Feb p 27-29
Chartenty religion Melanesian cargo cuit	high school, science teaching, physics curriculum, Physical Science
1939 IVIAY D 111 123	Study Committee, university sponsored curriculum reform
agricultural revolution, Fertile Crescent, human evolution, Neolithic	1958 Apr p 56-64 [229]
agricultural revolution, Fet the Crescent, numbers and animals archeology, 8000 B C domestication of plants and animals	education, mathematics teaching, high school, university sponsored
archeology, 8000 B C dolliestication of plants	curriculum reform 1958 May p 64-74 [238]
commerce, money, bride price, red-feather money. Southwest Pacific-	science teaching, evolution, religion, Darwinism, creationism, Bible
commerce, money, bride price, red-realist money, 1962 Mar p 94-104	high school, Man, a Course of Study, biological sciences curriculum
Solomon Islands culture African culture 10 000 B C	study 1976 Apr p 33-39
Solomon Islands culture Mesolithic era, Ishango man, harpoon, African culture 10 000 B C 1962 June p 105-116	science teaching summer institutes for teacher-training
1902 Julie p 105-110	1956 Apr p 72
cultural archeology, Isimila, Paleolithic culture, stone tools Old Stone 1961 Oct p 118-129	science teaching U.S. secondary schools 1957 Feb p. 57
Age site in Africa	science teaching US secondary schools 1958 Feb p 40
Age site in Africa cultural assimilation, Amerindian, Hopi Indians, Tewa Indians Pueblo 1957 June p 126-136	education funding. U.S. National Science Foundation program
Indians 1957 June p 120-150	1958 July p. 47
Indians racial discrimination, Amerindian, genocide, civil rights, persisting 1960 Feb p 37-45	Chemical Education Materials Study 1960 June p. 82
identity of Amerindians	science teaching, Biological Sciences Curriculum Study
identity of Amerindians cultural differences, split-style art, visual cultural context of perception, cultural differences, split-style art, visual [1972 Nov p 82–88 [551]]	1960 July p 81
cultural context of perception, cultural differences, spinos p 82-88 [551] perception, Hudson test	•
perception, ************************************	

urtain wall, skyscrapers, building construction, load-bearing wall 1955 Mar p 44–48	cytochrome oxidase, ceruloplasmin, hemocyanin, oxygen transport, enzymes, copper deficiency, copper biochemistry, Wilson's disease,
wind bracing, skyscrapers, construction technology, Eiffel Tower,	tyrosinase 1968 May p 102–114
cantilever, truss bridge, steel frame construction	cytogene, cytoplasmic inheritance, reciprocal crossing, maternal
1974 Feb p 92–105	inheritance, sex linked traits, non-Mendelian inheritance, male
curvature of space, cosmology, universe expansion, Olber's paradox,	sterility, paramecium, chloroplast, plastids, review of evidence for an
world lines, red shift, galactic evolution, evolutionary universe,	extra-chromosomal genetics 1950 Nov p 30-39 [39]
	cytokinins, auxins, plant growth, dormin, plant hormones, giberellin
	1968 July p 75–81 [1111]
Riemann, non-Euclidian geometry, general relativity	cytology, isotopes, radioautography, molecular biology, use of
1954 Nov p 80–86	radioisotopes in biological research 1949 Feb p 30-41
curved line, mathematics, straight line, Euclidean geometry, geometry,	ionizing radiation, photoelectric effect, Compton effect, chemical
reach and limits of axiomatic approach 1956 Mar p 104-114	onizing radiation, photoelectric effect, Compton effect, encimelar
cushion plant, alpine environment, pinks, lammergeier, Himalayan	effects, free radicals, lethal effects of radiation 1951 Dec p 22-25
mountain ecology 1961 Oct p 68–78	plutonium, ultra-microchemistry, embryonic development, chemistry,
cut glass, by photochemistry 1953 Mar p 50	isolation of plutonium established a new research technology
cuttlebone, marine biology, buoyancy, swim bladder, chambered nautilus	1954 Feb p 76–81
1960 July p 118–128	microsome, protein synthesis, ribosome, RNA, recognition of ribosome
cyanate, chemotherapy, genetic disease, anemia, hemoglobin, erythrocyte,	as site of protein synthesis 1958 Mar p 118-124 [52]
sickle cell disease 1975 Apr p 44–50 [1319]	amoebae, cell, sol-gel reaction, high pressure, effect of high pressure on
cyanobacteria, algae, algal bloom, blue-green bacteria, gas vacuoles	cellular activity 1958 Oct p 36-43
1977 Aug. p 90–97 [1367]	chromosome breakage, radiation damage, ionizing radiation, mutation,
cybernetics, feedback, automatic control, self-regulation, computer	radiation damage to living cell 1959 Sept p 94-100 [57]
science, automata theory, mechanical, biological, social self-	cell nucleus, cytoplasm, cell organelle, chromosome, cell physiology,
regulation 1948 Nov p 14–19	RNA, DNA, endoplasmic reticulum, nuclear control of cell
control theory, mathematics, computer programming, feedback,	1960 Jan p 126-136
frequency response, stability, dynamic programming, 'policy'	energy transformation, ATP, mitochondrion, citric-acid cycle,
	glycolysis, oxidative phosphorylation, membrane, energy
concept 1964 Sept p 186–200 communication technology, information theory, language, machine	transformation in the cell 1960 May p 102–114
communication technology, information theory, language, machine	cilia, flagella, structure and function 1961 Feb p 108–116 [79]
communication, communication, introduction to single-topic issue	cell membrane, pinocytosis, cell metabolism, ingestion by outer
on communication 1972 Sept p 30–41 [677]	
cyclic AMP, acrasın, amoebae, adrenalın, social amoebae, slime mold,	
Dictyostelium 1969 June p 78–91	cell anatomy, spermatozoon, ovum, virus, science history, muscle cell,
ACTH, ATP, glucogenesis, glycolysis, hormone, epinephrine, cell	plant cell, connective tissue cell introduction to single-topic issue on
metabolism, activation of cyclic AMP by hormones	the living cell 1961 Sept p 50-61 [90]
1972 Aug p 97–105 [1256]	ATP, chloroplast, mitochondrion, photosynthesis, cell metabolism,
brain function, dopamine, endocrine system, messenger molecules,	glucogenesis, citric-acid cycle, glycolysis, oxidative phosphorylation,
nervous system, neurotransmitters, L-DOPA treatment, Parkinson's	cellular transformation of energy 1961 Sept p 62-73 [91]
disease, 'second messengers', brain endocrinology	ribosome, protein synthesis, DNA, mRNA, tRNA, nucleus,
1977 Aug p 108–119 [1368]	chromosome, how cells make molecules 1961 Sept p 74–82 [92]
cyclic molecules, catenane, chemical topology, topological isomer,	mitotic apparatus, chromosome, meiosis, mitosis, mechanism of cell
molecular structure, rung molecules, linking and knotting of rung	division 1961 Sept p 100–120 [93]
molecules 1962 Nov p 94–102 [286]	cell differentiation, tissue specialization, 'lampbrush' chromosome,
cyclone, wind, meteorology, atmospheric circulation, anticyclones, source	embryonic development, zygote, fertilization, ovum, clone, how cells
of prevailing winds 1956 Dec p 40–45 [841]	specialize 1961 Sept p 124–140
East Pakistan flood, flood disasters 1971 Mar p 46	cell aggregation, tissue differentiation, cell 'recognition', embryonic
cyclosis, actinomyosin, cilia, muscle contraction, flagella, cytology,	development, how cells associate 1961 Sept p 142–165
cytoplasmic streaming, actin, myosin, underlying unity of cellular	active transport, passive transport, pinocytosis, phagocytosis, osmosis,
motion 1961 Sept p 184–204 [97]	cell membrane, fertilization, functions of cell membranes
cyclosomes, cardiac function, hagfish, comparative psychology, knot-	1961 Sept p 167–180 [96]
tying fish, hermaphrodite 1966 Feb p 82–90 [1035]	actinomyosin, cyclosis, cilia muscle contraction, flagella, cytoplasmic
cyclotron, colliding beam accelerator, synchrotron, high-energy physics,	streaming, actin, myosin, underlying unity of cellular motion
strong-focusing synchrotron, design and purposes of big accelerators	1961 Sept p 184–204 [97]
1958 Mar p 64-76 [251]	cell communication, central nervous system, nerve conduction,
technological advances 1959 Jan p 69	ganglion reflexes, neuroreceptors, retina, nerve impulse.
Cygnus A, universe, Cassiopeia, radio galaxies, red shift, Crab Nebula,	neurotransmitters, neural synapse, neuromuscular synapse, how cells
colliding galaxies 1956 Sept p 204-220	communicate 1961 Sept p 209-220 [98]
Cygnus X-1, binary stars, black hole, black hole search	hearing, vision, sensory organs ommatidia, neuroreceptor cells, taste
1974 Dec p 32-43	buds, how cells receive stimuli 1961 Sept p 222-238 [99]
Cygnus X-3, radio outbursts 1973 Jan p 45	bacteriology, microorganisms, PPLO, virus, electron microscopy,
cytochrome, chlorophyll, tetrapyrrole ring, hemoglobin, respiration,	smallest free-living cells 1962 Mar p 117-126 [1005]
enzymes, tetrapyrrole virtuosity 1958 Aug p 77-81	Barr body, sex differences, chromosome, genetic mosaic, Klinefelter's
chlorophyll, photosynthesis, chloroplast, electron transfer, ATP,	syndrome, Turner's syndrome, chromosomal anomalies sex
pigments, role of chlorophyll in photosynthesis,	differences in tissue cells 1963 July p 54-62 [161]
1965 July p 74–83 [1016]	dialectical-materialist cell theory 1958 Sept p 89
evolution, proteins, species specificity, computer analysis, amino-acid	electron micrograph of living cell 1961 Apr p 78
substitution, phylogeny from amino-acid substitution	reconstituted amoebas 1970 May p 57
1969 July p 86-95 [1148]	cytoplasm, cell nucleus, cell organelle, chromosome, cell physiology,
cytochrome antagonist, diphthena toxin toxicity, diphthena toxoid,	RNA, DNA, endoplasmic reticulum, cytology, nuclear control of cell
diphtheria antitoxin 1952 Oct. p. 32–36	1060 Inn = 106 100
cytochrome C, protein evolution, protein structure, respiration, amino-	1960 Jan p 126-136 Acetabularra, giant cells mermaid's wineglass, cell nucleus algae, giant
acid substitution, mutation rate, 1.2 billion year record of evolution.	cells in study of nucleus-cytoplasm interaction
ancient protein 1972 Apr. p. 58-72 (1245)	1066 No 110 104-10-1
cytochrome helix, mathematical model, computer modeling giant	cytoplasmic inheritance, reciprocal crossing, maternal inheritance, sex
molecules myoglobin, hemoglobin, molecular modeling DNA	linked traits non-Mendelian inheritance male sterility, paramecium,
1966 June p 42-52 [1043]	chloroplast, plastids, cytogene, review of evidence for an extra-
	chromosom all strongene, leview of evidence for an extra-

chromosomal genetics

1950 Nov p 30-39 [39]

insecticide resistance, persistent insecticides

maternal inheritance, extranuclear DNA, mitochondria, chloroplast, Chlamydomonas 1965 Jan p 70-79 [1002 eytoplasmic streaming, actinomyosin, cyclosis, cilia, muscle contraction,	petier, petier, petierly, mind-generation pesi
riagena, cytology, actin, myosin, underlying unity of cellular motion	Harman Tadianon, A-ray, Son ecology
theory of amoeboid motion 1962 Feb p. 112, 122, 132	(Moura motabalism annaball at
cytosurgery, microsurgery, micromanipulator, enucleation 1950 Oct p 48-5	ecological effect of pesticides 1970 Apr p 72-
micromanipulator, cell nucleus, on transplanting nuclei	a peril to hones bee
1952 Apr. p 58-6-	trace amounts in Antarctic fauna 1965 Sc
	concentrations in marine mammals 1968 A. DDT residues, insecticide, fallout, ecological cycles, food chain,
D	ecological redistribution of pollutants 1967 Mar p 24-
D	De Forest, radio, triode, vacuum tube, Marconi, Fleming valve, d rectification, De Forest's 1906 contributions 1965 Mar p
daddy longlegs, Phalangida, harvestman, Arachnida, animal behavior, natural history 1962 Oct p 119-128 [137]	de re Metallica, Agricola, woodcuts from Hoover translation 1951 Feb
dairying, animal husbandry, cattle, Zebu cattle, European cattle, selective stock breeding 1958 June p 51-59	dead galaxies, mean density of matter 1969 A
dam safety, reservoir, earthquake zones 1977 Ian n 46	Dead Sea scrolls, Judaism, New Covenanters, Biblical archeology Qumran site 1971 Nov 1
Dance of the Solids, materials technology, a poem by John Updike.	Gnostic library, Judaism, religion 1973 Jan 1
occasioned by the September 1967 issue 1969 Jan p 130-131 Danish history, peat bog, archeology, weapons deposits, organic relies	deafness, ear, directional orientation, hearing, cochlea 1957 Aug p 66
1953 Oct p 84-88	Waardenburg's syndrome 1971 No
Danube River, pre-Neolithic village 1968 Apr p 50 Darrow, Darwinism, evolution, creationism, Bryan, Scopes trial, Scopes	death, aging life expectancy, biology of senescence 1948 June psychological autopsy 1968 Oc
trial, USA 1959 Jan p 120–130	death rate, aging, disease etiology, life expectancy, male female life
Darwin, evolution, science history, Charles Darwin biography 1956 Feb p 62-72 [108]	expectancy 1958 Feb p
Darwinism, Lysenkoism, Lamarck, acquired characteristics, genotype,	aging, life expectancy, comparative life spans in man and other a 1961 Aug p l
evolution, phenotype, mutation, ostrich calluses, speciation, religion,	abortion, population, marriage rate, birth rate, vital statistics
orthodoxy, experiments in acquired characteristics 1953 Dec p 92-99	menarche, infant mortality, 1538-1812, parish registers, York, England 1970 Jan p 1
evolution, creationism, Bryan, Darrow, Scopes trial, Scopes trial,	birth rate, demographic transition, human population, populatio
USA 1959 Jan p 120-130 natural selection, Wallace, science history, life and work of Alfred	growth history 1974 Sept p death-simulation, opossum, marsupial, animal behavior, playing po
Russel Wallace 1959 Feb p 70-84	by opossum and other animals 1950 Jan p
science history, Darwin's predecessors 1959 May p 60-66 evolution, religion, Scopes trial, science teaching, creationism,	Death Valley, desert pupfish, fish, species isolation, endangered spe 1971 Nov p 104-110
antievolution laws in U S 1969 Feb p 15-21	debt financing, economic development, Japan, employment policy,
science teaching, evolution, religion, curriculum reform, creationism, Bible, high school, Man, a Course of Study, biological sciences	investment, government-business relations, Japan's economic g 1970 Mar p
curriculum study 1976 Apr p 33–39	decimal system, mathematics, geometry, topology, quinary system,
evolution, Huxley's own account, 'apes and bishops' 1954 Mar p 52 creationism, Tennessee 'monkey law' repealed 1967 July p 42	from atto- to tera-
creationism, textbooks in California 1970 May p 55	decision ma: 'ability, subjective probability. Mc Carlo ctive and objective probability
creationism, creationism in California textbook controversy 1971 Jan p 46	1957 Nov p 128–138
creationism, Mississippi court overturns 'monkey law'	decision theory, mathematics, games theory, work of J. Von Neuman and O. Morsenstern 1949 May p. 2
creationism, 'equal time' in California schools 1971 Feb p 46	games theory, uncertainty principle, probability, pure strategy, car
creationism, 'equal time' for creationism in California rescinded 1973 Feb p 47	games illustrate theory 1951 Jan p 4 operations research, systems analysis 1951 Mar p 1
creationism, creationist textbook banned from Indiana schools	linear programming, mathematical model 1954 Aug p 2
19// June p 61	games theory, minimax, pure strategy, mixed strategy, worst-case analysis 1955 Feb p 7
Darwin's finches, speciation, Galapagos Islands, evolution	economics, mathematical model social sciences, mathematics in
data transmission, artificial satellite, communication, telecommunication,	economics and other social sciences 1964 Sept p 168 games theory, mathematical logic, paradox, 'metalogic' to solve
1 1 Juletion digital transmission 1700 Gept D 177 170	paradox 1967 July p 51 energy economics, power production, technology assessment, tort li
dating, see dendrochronology, coral rings, radioisotope dating, and the	economic planning market process 1971 Sept p 191-200
Davisson-Germer experiment, electron, wave-particle duality, diffraction,	decompression, continental shelf exploitation, saturation diving, underwater shelters, diving, oceanographic exploration
interference fringes, electron diffraction	1966 Mar p 24-33 [10
Day lamp, electrochemisty, phogastor 1960 June p 106-116 history, Humphry Davy, biography 1960 June p 106-116 history, Humphry Davy, biography 1960 June p 106-116	dedifferentiation of plant cells, tissue culture, plant tissue grafts plant hormones plant growth requirements 1950 Mar p 48
day-night temperature, climate, plant growth, greenheast, and the total	dedifferentiation of tissue cells, embryonic development, regeneration,
	cancer 1949 Dec p 22- deep-sea diving, laser illumination 1970 Dec p
day's length. Earth-Moon system, lunar oron, moon, tiday 1972 Apr p 42-52	deep-sea drilling, Earth crust, ocean evolution Pacific plate, plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov. p. 102-112 19.
DDT, malaria, W H O, mosquitoes, eradication of malaria, eradication of malaria, w H O, mosquitoes, eradication of malaria, eradication of	deep-sea environment, bacteria barophilic bacteria, deep-sea microbes
1952 Oct p 21-25	Alvin submersible 1977 June p 42-52 [92

eep-sea microbes, bacteria, barophilic bacteria, deep-sea environment,	microcircuits in the nervous system 1978 Feb p 92-103 [1380]
Alvin submersible 1977 June p 42–52 [926]	dendrochronology, Douglass, science history, A E Douglass and tree-ring
eep-sea scattering layer, 'false bottom', marine biology, plankton, sonar,	clock 1952 Jan p 54–58
shrimp, heteropod, deep-sea 'layer of life' 1951 Aug p 24-28	archeological dating, carbon 14 dating, European prehistory
sonar, echo-sounding, ocean floor, plankton, photic zone, 'false	1971 Oct p 63–72 [672]
bottom' 1962 July p 44–50	climate, radiocarbon dating 1972 May p 92-100 [1250]
	carbon 14 abundance, climate, ice ages, Maunder minimum, solar
	physics, sunspots 1977 May p 80–92 [925]
badger, dog, horse, cheetah, locomotion, comparative anatomy,	denitrifiers, nitrogen, biological nitrogen fixation, ammonia, nitrifiers,
	nitrogen cycle, legumes 1953 Mar p 38-42
leer mice, brown fat, altitude adaptation, Quechua Indians,	dense stars, binary stars, supernovae, X-ray binary stars
acclimatization, hemoglobin, metabolic rate, exercise, human	1975 Mar p 24-35
physiology at high altitude 1970 Feb p 52-62 [1168]	density-gradient, ultracentrifugation, separation techniques
defense, see military	1965 Aug p 70–76
defoliation, bomb craters, cratering, ecological warfare, laterization,	
Vietnam war 1972 May p 20–29 [1248]	density-gradient centrifugation, hybrid cells, DNA, RNA, ribosomal
deforestation, forestry, nitrogen fixation, ecosystem, resource	RNA, gene transcription, gene complement, DNA-RNA
management, runoff, erosion, watershed, deforestation experiment	hybridization experiments 1964 May p 48–56
1970 Oct p 92–101 [1202]	dental adhesive, barnacle cement 1968 Aug p 46
degenerate gas, dwarf stars, gravitational collapse, white dwarfs, binary	dental hygiene, effectiveness of fluoridation 1956 Feb p 58
stars, 'dying' stars 1959 Jan p 46–53	dental insurance, experimental prepayment plans 1950 Sept p 51
degenerative diseases, cortisone. ACTH, inflammation, hormone, stress,	dental research, germ-free environment, immune response, surgical
experience with and appraisal of two hormonal drugs	isolator 1964 July p 78-88
1950 Mar p 30-37 [14]	dentin, teeth, enamel, metabolism, fluoridation 1953 June p 38-42
chronic illness, morbidity, mortality rates, medical care, vital statistics,	dentistry, caries, bacteriology, fluoridation, new theory of tooth decay
life expectancy, infectious disease, causes of death	1948 Oct p 20–23
1973 Sept p 76-84	caries, tooth enamel, bacteriology, causes of tooth decay
immune system, slow virus infection, virus disease, kuru, scrapie,	1957 Dec p 109–116
cancer virus, herpes virus 1974 Feb p 32–40 [1289]	transplanting and re-planting of teeth 1964 Feb p 72
cancer virus, herpes virus 1974 Feb p 32–40 [1289] degenerative evolution, caves, ecology 1955 May p 98–106	caries and periodontitis in buccal ecology 1972 Feb p 42
degrees C, temperature, means Celsius, not Centigrade 1949 May p 26	deoxyribonucleic acid, see DNA
Deimos, Mars, Martian moons, Phobos, Mariner spacecraft missions	depression, blue Monday, morale, not fatigue 1950 Aug p 31
1977 Feb p 30–37 [352]	deprivation dwarfism, ACTH, child development, dwarfism, emotional
delay-Doppler mapping, Doppler effect, planetary motion, radar	deprivation, growth hormone, 'bone age', anorexia nervosa
astronomy, Mercury, Venus, microwaves 1968 July p 28–37	1972 July p 76–82 [1253]
delayed feedback, confusion instant 1951 Feb p 36	depth perception, 'visual cliff', infant, comparative psychology, visual
delinquency, aggression, violence, motion picture film, television,	perception, genesis of depth perception 1960 Apr p 64–71
catharsis, effects of observing filmed violence	vision, learning, visual perception, innate and learned response to
1964 Feb p 35-41 [481]	visual cues 1961 Mar p 138–148
deltas, Mississippi river, meanders, alluvial valley, floods	pattern recognition, visual perception, computer graphics, stereoscopic
1951 Apr p 18–23	images, texture discrimination 1965 Feb p 38–48 [318]
'demand-pull', 'cost-push' inflation, economic analysis, inflation, input-	binocular vision, eye, neurophysiology, optic chiasm, stereopsis, visual
output analysis 1971 Nov p 15–21	cortex 1972 Aug p 84–95 [1255]
Democritus, atom, science history 1949 Nov p 48–49	depth reversal, Necker cube, optical illusion, reversing figures, visual
demographic transition, economic development, industrialization,	perception 1971 Dec p 62–71 [540]
urbanization, population control, family planning economic	dermatitis, allergic reaction, autosensitivity, poison ivy, rheumatoid
development and the demographic transition	arthritis, multiple sclerosis, delayed hypersensitivity
1963 Sept p 62–71 [645]	1960 Apr p 129–137
population growth, world population, zero population growth, birth	from brass 1952 May p 42
rate, gross reproduction rate, net reproduction rate, extrapolation	dermatoglyphics, correlation theory, Galton, eugenics, life and work of
from world-statistics population model 1973 Mar p 15–23 [683]	Francis Galton, regression to mean 1954 Jan p 72–76
economic development, human population, population explosion, zero	skin, hair, surface area, skin glands, thermoregulation, structure and
population growth, introduction to single-topic issue on the human	function of human skin 1965 Feb p 56–66 [1003]
population 1974 Sept p 30–39	skin, epidermal ridges, chromosomal anomalies
birth rate, death rate, human population, population-growth history	1969 Dec p 72–84 [1164]
1974 Sept p 40–51	dermatology, porphyria, pink tooth disease, gene pool, tracking porphyria
developed countries, human population, birth control, zero population	among Afrikaaners 1957 Mar p 133-142
growth 1974 Sept p 108–120	desalination, ion exchange alkali, amino-acid separation
developed countries, progenitive family, human population	1950 Nov p 48–51
1974 Sept p 122–132	distillation, water, ion exchange, solar still, alternative technologies
distribution of wealth, economic development, middle classes,	1957 Mar p 37–45
population growth, production statistics, natural resources	ice crystals isobutane, sea-water freezing, heat of fusion, freezing as
1976 July p 28–35	
economic-level role 1964 June p 56	alternative to distillation 1962 Dec p 41-47 economic development, industrialization, water supply, irrigation,
birth control, in China 1973 Nov p 49	water resource management, technology and economics of water in
world statistics 1976 Nov p. 67	economic development 1963 Sept. n. 92–108
demographics, population growth, cultural evolution, agricultural	huran auchana
revolution, Industrial Revolution, population explosion, human	Desargue's theorem, projective geometry, Renaissance paintings,
evolution, historical perspective on human population growth, how	Leonardo Durer, Pascal's theorem, mathematics, projective
many ever lived 1960 Sept p 194-204 [608]	geometry as systematized by Poncelet and Klein 1955 Jan p 80-86
education US population, labor force age-sex distribution gross	Descartes, Fermat, mathematics history, analytic geometry, conic
national product. U S census more from the U S census of 1960	sections, Euler, mathematics 1040 for m 40 45
1962 Oct p 30–37	Cartesian geometry, mathematics, analytic geometry, philosophy, Rene
demyelinating factor, slow virus infection, multiple sclerosis, myelin	Descartes, biography 1959 Oct p 160-173
sheath poliomyclitis latent viruses 1970 July p. 40.46	Descartes, biography 1959 Oct p 160-173 human anatomy, sensory perception, neuropsychology, eye ear, 17th c
dendrites, alloys crystal structure, metal casting, metallurgy,	approach to human perception, mechanistic hypothesis
solidification of metal 1974 Dec. n. 88_95	inca Man - too see - too s
nerve circuits synapse postsynaptic potential olfactory bulb, retina,	1964 May p 108-116 [184]

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desegregation, public opinion, American Negro, U.S. whites, attitude	acanomía develes es es
survey, racial segregation, sociology, longitudinal attitude study 1956 Dec. p. 35-3	economic development, input-output analysis, developed countries, complementary economic structures of developed and
racial integration, public opinion, attitude survey. U.S. whites	
American Negro, longitudinal attitude study reported in 1956	agricultural production, equatorial rain forests, tropical climate, laterization, lateritic soil 1964 Nov. p. 96–102 [870]
1964 July n. 16-23 1623	human mutation and the
racial integration, American Negro, U.S. whites, attitude survey, public	DOVERTY 1068 Nov. n. 27-35
opinion, longitudinal attitudes study 1971 Dec. p. 13-19 1673	high sate monthly was a last
desert, Mars, polar cap, atmosphere, climate, 'canals', picture from Earth-	- 1974 Sept. p. 148–159
bound study 1953 May p. 65-73	foreign aid, technology transfer, technical assistance, human
Nabataean culture, irrigation, wadi, agricultural system, restoration of Nabataean irrigation works in the Negev 1956 Apr. p. 39-45	population 1974 Sept. p. 172–182
Nabataean irrigation works in the Negev 1956 Apr. p. 39-45 desert adaptation, Arctic flora, cold adaptation, paleobotany, Greenland	p 5) v- 18-1, manuatition, 100d and agriculture, human human
flora, adaptations to Arctic climate 1956 Feb. p. 88–98	1976 Sept. p. 40-49
comparative psychology, kidney function, salt-water balance,	•
thermoregulation, man:camel comparison	development 1976 Sept. p. 196-205 food-production increase 1969 Dec. p. 50
1959 Dec. p. 140-151 [1096]	sex role, U.N. conference on women's role 1975 Sept. p. 53
behavioral adaptation, ground squirrels, Mojave desert, animal	developmental psychology, learning, imprinting, animal behavior, effect of
behavior, kidney function, thermoregulation, desert mammals'	early life on later learning 1958 Mar. p. 81–90 [416]
adaptations to heat and aridity 1961 Nov. p. 107-116	
antelope, thermoregulation, water drinking, evaporation, eland and	conditioning, information processing, space, size, shape perception
oryx, survival without drinking 1969 Jan. p. 88–95	
desert ecology, Joshua trees, mesquite, creosote bushes 1955 Apr. p. 68–75 [114]	animal behavior, homing behavior, kittens, learning, suckling 1972 Dec. p. 18-25 [552]
trace elements, cobalt, land reclamation, vitamin B12 synthesis,	Devon caves, science history, Neanderthal man, human evolution, stone
agricultural technology, reclamation of infertile Austrialian land	tools, idea of man's antiquity 1959 Nov. p. 167-176
1959 Jan. p. 97–106	Devonian period, evolution, lungfish, air-breathing fishes, fish physiology,
algae, lichens, symbiosis, fungi, polar ecology, symbiotic nature of	conquest of land-breathing organs 1968 Oct. p. 102-111 [1125]
lichens 1959 Oct. p. 144–156 [111]	diabetes, first synthetic insulin 1963 Dec. p. 72
Negev desert, irrigation, agricultural technology, land reclamation,	viral as well as genetic etiology? 1976 Feb. p. 55
Israel, desert reclamation 1960 Mar. p. 54-63	diabetes insipidus, thirst, salt excretion, electrolyte balance,
desert plants, C-4 trait, efficiency, plant breeding	thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory
1973 Oct. p. 80–93 [1281] desert pupfish, Death Valley, fish, species isolation, endangered species	1956 Jan. p. 70-76
1971 Nov. p. 104–110 [1236]	dialects, speech, language, American languages, linguistics, changes in
desert rat, kidney, water balance, oxidation of food, how banner-tailed	U.S. speech 1950 Jan. p. 48–51
kangaroo rat survives without water 1953 July p. 73–78 [1050]	dialysis, heart-lung machine, kidney machine, surgery 1954 Aug. p. 24-27
detergents, an explanation of their action 1959 July p. 71	
pollution curbed 1964 Sept. p. 84	enzyme-substrate complex, enzymes, catalysis 1959 Aug. p. 119-123 kidney, artificial kidney 1961 July p. 56-64
deterrence, ABM, MIRV, SALT, ICBM, arms race, counterforce strategy, dynamics, instability of arms race	diamond, meteorites, Canyon Diablo meteorite, iron-nickel phases, shock
1969 Apr. p. 15–25 [642]	hypothesis, asteroids, origin of meteorites 1965 Oct. p. 20-30
letoxification, alcohol metabolism, drug inactivation, enzyme, liver	corundum, crystal structure, cubic boron nitride, hardness, materials
function, metabolism of drugs, cirrhosis 1975 June p. 22-31 [1322]	technology, Mohs scale 1974 Aug. p. 62-70
leuterium, fusion reactor, nuclear power, magnetic bottle, plasma	plumes, Earth mantle, kimberlite pipes, volcanic eruption, genesis of kimberlite pipes 1978 Apr. p. 120-132 [931]
confinement, tritium, magnetic pumping, stellerator 1958 Oct. p. 28-35	see also: synthetic diamonds
algae, reaction kinetics, metabolism of mammals, penicillin mold,	diamond-crystal structure, crystal growth, synthetic diamonds, graphile-
heavy water biology 1960 July p. 106–116	crystal structure, synthesis at low pressure 1975 Nov. p. 102-103
leuterium abundance, cosmology, 'big bang' theory, 'closed' universe,	Dianetics, validity questioned 1950 Oct. p. 26
'open' universe, universe expansion, age of elements, average density	diapause, biological clock, circadian rhythm, dormancy, insect behavior, insect metabolism, photoperiodicity 1976 Feb. p. 114-121 [1335]
1976 Mar. p. 62–79	diatoms, biological clock, crabs, marine algae, sand hoppers, tidal-zone
leuterium-hydrogen ratio, 'big bang' theory, deuterium synthesis, cosmology, heavy hydrogen, interstellar matter	organisms, tidal rhythms, integration of biological and sidereal
1974 May p. 108–118	cycles 1975 Feb. p. 70–79 [1316]
leuterium-labeled proteins, ribosome mapping 1976 July p. 65	dichlorodiphenyltrichloroethane, see: DDT dichroic material, animal navigation, polarized light, Nichol prism,
leuterium synthesis, 'big bang' theory, deuterium-hydrogen rano,	horseshoe crab 1955 July p. 88-94
cosmology, heavy hydrogen, interstellar matter 1974 May p. 108-118	dichromatism, color blindness, sex linked traits, physiology and
leveloped countries, economic development, input-output analysis.	psychology of a vision defect 1951 Mar. p. 48-53
developing countries, complementary economic structures of	Dictyostelium, amoebae, social behavior, slime mold, chemotaxis communication, spatial orientation 1963 Aug. p. 84-93 [164]
developed and underdeveloped countries	communication, spatial orientation 1963 Aug. p. 84-93 [164] acrasin, amoebae, adrenalin, social amoebae, slime mold, cyclic AMP
1963 Sept. p. 148–100 [017]	1969 June p 78–91
demographic transition, human population, birth control, zero	slime mold, acrasin as 'social hormone' 1968 Oct. p. 60
population growth 1974 Sept. p. 100-120 progenitive family, human population, demographic transition	Dictyostelium acrasin, amoebac, social amoebae, slime mold, role of acrasin in cell aggregation 1949 June p. 44-47
1974 Sept. p. 122 10-	acrasin in cell aggregation 1949 June p. 44-47 Dictyostelium cell aggregation, amoebae, cell differentiation, social
labor force, sex role, human population, women's status	amochae slime mold, acrasin 1959 Dec. p. 152-162
	Dicumarol, blood clotting, anticoagulant therapy, thrombus
leveloping countries, Amazon, tropical rain forest, resource prospecting.	1951 Mar. p. 18–21
economic planning, forest management, management, 1948 May p. 11–14	die extrusion, hydrostatic pressure 1969 Oct. p. 49 dieldrin, agricultural pest, fire ants, pest control, insecticide
power, the Amazon months	1958 Mar. p. 36-41
economic development, technical assistance, model 1950 Mar. p. 16–19 four'	the matchelism earshell thinning, pollution, chorinated
	budrocarbons, DDT, avian reproduction, insecticide, food chain,
production. Julian Huxley on world population growth 1956 Mar. p. 64-76 [616]	ecological effect of pesticides 1970 Apr. p. 72–78 [1174]

dielectric mirrors, coated optics, optical interference coatings, light	communication technology, pulse-code modulation, binary arithmetic,
reflection, light transmission, laser, interferometry	television, transmission quality, telephone, AM, FM 1968 Mar р 102–108
1970 Dec p 58–75	diode laser, fiber optics, glass fiber cables, light-emitting diode, light-
dielectric pump, separation of nonconductive liquids 1956 July p 52	wave communication, pulse-code modulation, lightwave telephone
Diesel engine, Carnot cycle, isothermal combustion, automobile engines, Diesel's 'rational' engine 1969 Aug p 108–117	1977 Aug p 40–48 [373]
	communication technology, microelectronics, telecommunication
diet, kwashiorkor, malnutrition, food supply, human nutrition 1954 Dec p 46-50	1977 Sept p 192–209 [382]
fat metabolism, tissue, hormone, obesity, fat tissue, role of fat	digitalis, foxglove, heart physiology, dropsy, digitoxin, cardiac
metabolism in human physiology 1959 Dec p 70–76	insufficiency, history of digitalis 1965 June p 110–119
atherosclerosis, cardiovascular disease, human nutrition, arteries,	neural effects 1975 Dec p 54
epidemiology, cholesterol, coronary occlusion, lipids, plaque, artery	digitonin, mitotic spindle, sea urching egg, chromosome, centrioles
wall 1966 Aug p 48–56	1953 Aug p 53–63
fasting, human nutrition, metabolism, starvation, kwashiorkor,	digitovin, digitalis, foxglove, heart physiology, dropsy, cardiac
marasmus, physiology of starvation 1971 Oct p 14-21 [1232]	insufficiency, history of digitalis 1965 June p 110-119
coprolites, human feces, human nutrition, prehistoric man	digits, Benford's Law, probability, number theory, first-digit distribution
1975 Jan p 100–109 [687]	1969 Dec p 109-120
dietary requirements, amino-acid deficiencies, human nutrition,	dikes, ocean floor, sea-floor spreading, lava, magnetic bands, mid-ocean
metabolism, food and agriculture 1976 Sept p 50-64	ridge, the deep-ocean floor 1969 Sept p 126–142 [883]
difference engine, Babbage, computer, analytical engine, digital	dingo, aborigine, stone tools, Paleolithic man, Tasmanian devil,
computer, life and work of Charles Babbage 1952 Apr p 66-72	Australian aborigine, antiquity of man in Australia
differential topology, mathematics, topology, sphere, torus, everted sphere proof 1966 May p 112-120	l 1966 Mar p 84-93 [628] Dinoflagellata, algal bloom, marine ecology, acetylcholine, nerve poisons,
proof 1966 May p 112-120 diffraction, electron, wave-particle duality, interference fringes, electron	poisonous tide 1958 Aug p 92–98
diffraction, Davisson-Germer experiment 1948 May p 50–53	dinosaur agility 1968 July p 55
atomic microscope, X-ray diffraction 1951 July p 56–57	dinosaurs, reptile, mammalian evolution, paleontology, therapsids,
light, wave-particle duality, optics, interference, electromagnetic waves,	ichthyosaurs, evolution, origin of mammals 1949 Mar p 40–43
photon emission, introduction to single-topic issue on light	birds, ectothermy, endothermy, metabolism, birds descended from
1968 Sept p 50–59	dinosaurs 1975 Apr p 58-78 [916]
gemstones, grain structure, opal colors, periodic structures, silica-	Triassic brownstone 1969 Oct p 50
sphere packing 1976 Apr p 84–95	sauropod habitat 1971 Mar p 48
diffraction grating, spectroscopy, ruling engine, Strong engine, Rowland	diode, solid state physics, transistor, vacuum tube, electronics,
engine, the ultimate machine 1952 June p 45-54	germanium, triode, dawn of solid-state electronics
spectroscopy, Fraunhofer lines, prism, light, Fourier analysis, Girard	1948 Sept p 52-55
grid, interferometry 1968 Sept p 72–82	radio, triode, De Forest, vacuum tube, Marconi, Fleming valve,
more and better from Johns Hopkins 1950 May p 28 diffusion, crystal structure, metallurgy, wandering of atoms in crystal	rectification, De Forest's 1906 contributions 1965 Mar p 92–100 rectification, radio, thermionic tube, Fleming, electron tube, history of
lattice 1957 May p 103–110	science, England, Edison, lamps, Deforest 1969 Mar p 104–112
alloys, metalliding materials technology, surface alloy, molten fluoride,	light-emitting 1962 Sept p 102
electrolysis 1969 Aug p 38–46	diode detector, P-N junction diode technology 1960 Apr p 88
heat, solid state physics, thermal waves, second sound, cryogenics,	diode junction laser, Raman laser effect, gas laser, solid-state lasers, laser
wave propagation, phonon, helium, thermal waves in solid helium	technology in rapid development 1963 July p 34-45 [294]
1970 May p 92–101	diode laser, carrier-wave generator, communication technology, crystal
digestion, enzymes, catalysis, respiration, fermentation, lock-and-key	structure, laser, heterostructure lasers, light-emitting semiconductor,
theory, science history 1948 Dec p 28–39	solid-state electronics 1971 July p 32–40
hydrochloric acid, alcohol, aspirin, stomach mucosa, self-digestion safeguards 1972 Jan p 86-93 [1240]	digital transmission, fiber optics, glass fiber cables, light-emitting
digestive enzymes, carmivorous plants, active trapper, passive trapper,	diode, light-wave communication, pulse-code modulation lightwave telephone 1977 Aug p 40-48 [373]
natural history 1978 Feb p 104–155 [1382]	Diophantine equations, Chinese remainder theory, computability theory,
digger wasp, tarantula, symbiosis, predator-prey relationship	Hilbert program, mathematics 1973 Nov p 84–91
1952 Aug p 20–23	diphtheria antito\in, diphtheria toxin, toxicity, diphtheria toxoid,
digit recall, short-term memory, long-term memory, memory,	cytochrome antagonist 1952 Oct p 32–36
tachistoscope 1966 July p 90–95 [499]	diphtheria toxin, toxicity, diphtheria toxoid, diphtheria antitoxin,
digital computer, computer technology, analogue computer, relay	cytochrome antagonist 1952 Oct p 32–36
computers, binary arithmetic, logic, automatic control, computer memory, control systems, status of 'mathematical machines'	diphtheria toxoid, diphtheria toxin, toxicity, diphtheria antitoxin,
1949 Apr p 28–39	cytochrome antagonist 1952 Oct p 32–36
Babbage, computer, difference engine, analytical engine, life and work	direct-reduction processes, from ore, from melting, sponge from, steel production 1976 July p. 68-80
of Charles Babbage 1952 Apr p 66–72	production 1976 July p 68-80 directional orientation, insect behavior, social insect, animal
computer, automatic control, solid-state electronics, analog-to digital	communication, bee dances, 'language of the bees'
conversion, analogue computer, the universal machine	1948 Aug p 18-21 [21]
1952 Sept p 116–130	deafness ear, hearing cochlea 1957 Aug p 66–78 [44]
electronic typesetting, printing, photographic typesetting, mechanical composition, cathode-ray tube, computer applications	auditory perception, hearing, auditory localization, binaural hearing
1969 May p 60–69	1961 Oct p 132–142 [501]
charge-coupled devices, magnetic bubble memories, moving-surface	bee dances, insect behavior, species specificity, evolution, communication by sound, by dancing 1967 Apr p 96-104 [107]]
memories, semiconductor memories, microelectronics	communication by sound, by dancing 1967 Apr p 96–104 [1071] Antarctica, seal, breathing, breathing holes in ice
1977 Sept p 130-145 [378]	1969 Aug p 100–106 [1156]
digital storage media, information theory, statistics thermodynamics,	disaster psychology, life over property 1952 Mar = 44
noise, redundancy, analogue storage media information compression, automatic control, information 1952 Sept p 132–148	disciplinary distribution, science manpower, labor force, employment by
digital-to-analogue conversion, automatic control, machine tool, batch	sector 1951 Sent n 71 76
process, numerical instructions, automatic machine tool	discritations, atomie structure, crystal structure, dislocations, molecular
1952 Sent n 101 114	Structure, periodic structures 1977 Dec. 2 120 146 (2021)
digital transmission, artificial satellite, communication.	discontinuous phenomena, catastrophe theory, mathematical model, topology
telecommunication, data transmission pulse-code modulation	1976 Apr. p 65–83
1966 Sept p 144-156	

discrimination, social discrimination, group behavior, child development,	diving brady cardia, asphyxia, breathing, respiratory gas exchange, diving
in vs out group discrimination 1970 Nov p. 96_102 15201	mammals, diving birds, hibernation, oxygen storage, selective
uisease, morbidity, archeology, surgery, record of illness among the	ischemia, human physiology, redistribution of oxygenated blood and
ancients 1949 Jan n 52 55	
cholera, plague, yellow lever, epidemiology 1953 Feb n 22 27	diving mammals, asphyxia, breathing, diving bradycardia, respiratory gas
bacterial toxin, choiera, medical care, sanitation, water supply.	
epidemiology 1971 Aug n 15-21	exchange, diving birds, hibernation, oxygen storage, selective
birth control, cellbacy, foundling institutions, infanticide, Malthusian	ischemia, human physiology, redistribution of oxygenated blood and master switch of life. 1963 Dec. p. 92-106
doctrine, marriage age, population growth, population control in	31.1. 1 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Europe 1750-1850 1972 Feb p 92-99 [674]	41. 1 0
antigen variation, medical history, influenza virus, encephalitis,	
pandemics, virus disease, animal vectors, Hong Kong flu, swine flu	diving women, Ama, diving, Korea, Japan, breathing, human physiology
1977 Dec p 88–106 [1375]	basal metabolism, adaptation 1967 May p 34-43
disease etiology, aging, death rate, life expectancy, male female life	divorce, adolescence, family, alienation, racial discrimination, poverty,
expectancy 1958 Feb p 22–27	infant mortality, crime, suicide, drug addiction, changes in American
disease-resistant plants, plant breeding, agronomy, plant disease, fungal	family structure 1974 Aug p 53-61 [561]
infection, plant pathogens, sugarcane, mechanism of disease	DNA: deoxyribonucleic acid
resistance in plants 1975 Jan p 80-88 [1313]	DNA, heredity, chromosome, RNA, nucleoproteins, protein synthesis,
disease vector, bacteria, flies, epidemiology, maggot, dysentery, virology	DNA identified as agent of heredity 1953 Feb p 47-57 [28]
	bacteriophage, genetics, reproduction, tracer experiments, protein coat
dislocations, crystal structure, edge dislocation, soap bubbles, slip planes	1953 May p 36–39
1055 July 20 on too	double helix, X-ray cry stallography, genetic code, structure of DNA
1955 July p 80–87 [204]	resolved 1954 Oct p 54-61 [5]
crystal structure, metals, whiskers, fiber-reinforced, matrix, composite	virus structure, protein 'overcoat' 1954 Dec p 62-70 [32]
materials, two-phase materials 1965 Feb p 28–37	genetic code, codon, amino-acid pairing, RNA, Gamow proposes
corrosion tunnel, stress-corrosion failure, crystal structure, metalliding	triplet codon 1955 Oct p 70–78
1966 Feb p 72-81	bacteria, protein synthesis, genetic code, RNA, protein synthesis by
alloys, materials technology, metals, crystal structure, grain boundaries,	bacterial DNA-RNA in vitro 1956 Mar p 42-46
lattice defects, electron 'gas', nature of metals 1967 Sept p 90-100	RNA, genetic code, chromosome, protein synthesis, polymers,
crystal structure, forging, metal forming, strain hardening, creep in	molecular genetics as of mid-1957 1957 Sept p 188-200 [54]
metals 1975 Apr p 116–125	RNA, protein synthesis, recognition of RNA as transcriber of DNA
atomic structure, crystal structure, disclinations, molecular structure,	1959 Dec p 55-61
periodic structures 1977 Dec p 130–145 [393]	cell nucleus, cytoplasm, cell organelle, chromosome, cell physiology.
disoriented figures, form perception, retinal orientation, visual perception	RNA, endoplasmic reticulum, cytology, nuclear control of cell
1974 Jan p 78-85 [557]	1960 Jan p 126-136
dispersion-strengthened composites, cermets, composite materials, fiber-	ribosome, protein synthesis, mRNA, tRNA, nucleus, chromosome,
reinforced composites, particulates 1973 July p 36-44	cytology, how cells make molecules 1961 Sept p 74-82 [92]
displacement activity, stickleback, courtship display, animal behavior,	gene mapping, chromosome, bacteriophage, mapping genes by induced and spontaneous mutations 1962 Jan p 70-84 [120]
sexual behavior, ethology 1952 Dec p 22-26 [414]	
courtship display, gulls, animal behavior, releaser stimulus, ethology	phage X174, gene mutation, single-stranded DNA 1962 July p 109–116 [128]
1954 Nov p 42–46	1902 July p 107-110 (129)
displacer, cryogenic technology, Stirling cycle, refrigeration, hot-air	genetic code, base triplets, protein synthesis, nucleotide sequence, codon, base triplet established as codon 1962 Oct p 66-74 [123]
engine, closed cycle 1965 Apr p 119–127	codon, base triplet established as codon 1962 Oct p 66-74 [123] antibody production, thymus, immunology, lymphocytes, autoimmune
display devices, liquid crystals, dynamic scattering, storage mode,	
television receiver 1970 Apr p 100–106	disease, thymus role in producing antibodies 1962 Nov p 50-57 [138]
dissociated cells, embryonic development, tissue culture, tissue	ultraviolet radiation, mutation, effects of ultraviolet on weakest links in
differentiation, reassembly of dissociated tissue cells 1959 May p 132-144	chain 1962 Dec p 135–144 [143]
	mRNA, tRNA, genetic code, ribosome, protein synthesis, genetic code
dissolved oxygen, limnology, pond life, plankton, thermocline,	elucidated amino acid 'dictionary' 1963 Mar p 80-94 [153]
hypolimnion, oxidation-reduction balance in depths of a pond 1951 Oct p 68-72	polyribosomes protein synthesis, RNA, ribosome 1963 Dec p 44-53
listance perception, visual perception, 'Ames room', motion perception,	chromosome puffs, insect chromosome, RNA synthesis, hormonal
optical illusion, size perception, illusions as clues to organization of	induction, gene regulation 1964 Apr p 50-58 [180]
	hybrid cells, RNA, ribosomal RNA, gene transcription, gene
perception 1931 Annual P 30–33 listillation, water, desalination, ion exchange, solar still, alternative 27, 45	complement, density-gradient centrifugation, DNA-RNA
technologies 1957 Mar p 37–45	hybridization experiments 1964 May p 48-56
distortion, visual perception, optical illusion, size constancy, pictures as	antibiotics, protein synthesis, streptomycin, genetic code, ribosome
absects allusions arise from normally useful mechanisms	RNA, mutation, 'misreadings' induced by antibiotic alterations of
1968 NOV D 00-70 [317]	ribosomes 1966 Apr p 102–109
listributed-processing networks, computer technology, microelectronics	mathematical model, computer modeling giant molecules, cytochrome
	helix, myoglobin, hemoglobin, molecular modeling
listribution coefficient, materials technology, zone refining, zone melting,	1966 June p 42–52 [1043]
	amino acids protein synthesis, genetic code, mutation molecular biology, triplets, RNA anticodon, ribosomes, triplets wobble
e - M- concern development, injudic classes, population	10110 71 (0.11057)
	hypothesis 1966 Oct p 35-62 [1032] bacteriophage, virus structure, T4 virus, mutation morphogenesis test-
	tube reconstruction of viral components 1967 July p 60–74 [1079]
	leukocyte, nucleus Miescher, spermatozoon nucleus, chromatin,
shelters, decompression, oceanographic exploration 1966 Mar p 24–33 [1036]	hereditary material, discovery of DNA 1968 June p 78–88 [1109]
1900 Mar p 24-55 (1050)	chloroplast, mitochondria, symbiosis cell organelle, prokaryote origin
Ama, diving women, Korea, Japan, breathing, human physiology, basal 1967 May p 34-43	protein synthesis, plastids, cell evolution, extra-nuclear genetic
metabolism, adaptation 1067 Aug = 44	activity in cell 1970 Nov p 22-29 [1203]
prolonged underwater work 1971 Oct p 44	gene mutation, RNA-DNA 'reverse' transfer, cancer virus, DNA
depth limit 1975 Oct p 53	polymerase, RNA-directed DNA polymerase
depth limit	1972 Jan p 24-33 [1239] cell nucleus chromatin, chromosomal proteins gene regulation,
living birds, asphyxia, breathing diving bradycardata tophysical exchange, diving mammals, hibernation, oxygen storage, selective exchange, diving mammals, predictiphytion of oxygenated blood and	histones nucleoproteins oxidative phosphorylation
exchange, diving mammals, hibernation, oxygen stongers and ischema, human physiology, redistribution of oxygenated blood and ischema, human physiology, redistribution of oxygenated blood and ischema, human physiology, redistribution of postports.	1975 Feb p 46-57 [1315]
ischemia, human physiology, realistication 1963 Dec p 92–106 'master switch of life'	
master surren or	

genetic code poliomyelitis virus, protein synthesis, RN	A, virus	malpractice insurance, medical care, medical maipract	nce 976 Aug p 18–23
	5 May p 24–31	doctorates, intellectual resources of U S, college gradual	
E coli, gene structure, nucleotide sequence, viral DNA	, bacteriai virus	doctorates, intellectual resources of O.S., conege gradual	151 Sept p 42–46
	p 54-67 [1374]	Dodgson, mathematics, logic, Carroll, 'Alice in Wonderl	
constant in tissue cells, half as much in egg and sperm of	1040 Mar = 25	Carroll (Charles Lutwidge Dodgson), biography	and, Lewis
	1949 Mar p 25		6 Apr p 116-128
	956 Sept p 114	symbolic logic, barber paradox, mathematics, paradox	
two-part molecular structure	1958 Apr p 50	symbolic logic, barber paradox, mathematics, paradox	972 July p 38–46
synthesis of DNA outside living cell	1958 Nov p 54		
activation of DNA by negative electric charges	1958 Dec p 64	dog, badger, horse, cheetah locomotion, deer, comparat	May p 148–157
mutation mechanism	1961 Apr p 82	e ,	1970 Nov p 46
mRNA, synthesis of RNA	1961 Aug. p 62	cooling by panting	1975 Dec p 50
breaking the code	1962 Mar p 68	oldest known fossil dolorimeter, pain, what is pain?	953 Mar p 59–66
universality of code	1962 July p 76	dolphin, gas exchange in deep diving	1970 Mar p 64
template for all the RNA's	1963 Mar p 76	domed roof, air conditioning, air vent, wind tower, archi-	
how double helix untwists	1963 July p 69	system, passive cooling systems in Iranian architect	
genetic code, codon has three nucleotides	1964 Mar p 54 1968 Feb p 51		p 144-154 [705]
0X174 DNA synthesized		domes, hot spots island arcs, plate tectonics, ocean rifts,	
histone-chromatin scaffold	1975 July p 46 1977 May p 50		ug p 46–57 [920]
phase-shift reading		domestic animals, Macedonia, Nea Nikomedeia, Neolith	
DNA-actinomycin binding, antibiotics, actinomycin, mR	p 82–91 [1303]	figurines, agricultural society, oldest Neolithic site i	
			965 Apr p 82–92
DNA fractionation, gene isolation, ribosome, ribosomal I	p 20–29 [1278]	water buffalo, animal husbandry, agricultural water b	
G	1970 Sept p 82		p 118–125 [1088]
DNA from RNA, RNA-directed DNA polymerase	1970 Nov p 44	donkeys, animal husbandry, mules, horse, genetics and	
'central dogma' restated DNA operator, DNA repressor, gene expression, gene re			p 102–109 [1208]
restriction endonuclease, operator-repressor system	Euration, nost-	dopamine, acetylcholine, adrenalin, catecholamines, drug	
	тр 64-76 [1333]	physiology, neurotransmitters, noradrenaline	5 0.10010, 110.10
DNA polymerase, DNA synthesis, virus - X 174, cell-fre		1 5 65.	ne p 58-71 [1297]
activated nucleotides, first test-tube synthesis of bio	logically active	brain function, cyclic AMP, endocrine system, messen	
	t p 64-78 [1124]	nervous system neurotransmitters, L-DOPA treatm	
DNA, gene mutation, RNA-DNA 'reverse' transfer, c		disease, 'second messengers', brain endocrinology	,
	пр 24–33 [1239]		p 108-119 [1368]
DNA R-factor, bacteria, drug resistance, mutation antib		'doping', junction transistor, germanium crystal, triode	
transferable drug resistance, multiple resistance 19	967 Dec p 19-27		952 July p 28-32
DNA recombination, adenoviruses, cancer virus, SV40 v	ırus, DNA virus,	materials technology, solid state physics, crystal defec	ts epitaxial
gene transformation, tumor-virus antigen, virus etic	ology of cancer	growth, surface chemistry, precipitation in solids, cl	nemical
19	966 Mar p 34–41		Sept p 210-220
DNA repeat segments, evolution, genome size, sDNA, I	NA-RNA	Doppler effect, Mossbauer effect, relativity theory, atom	ic clock,
	or p 24–31 [1173]	resonance absorption general relativity tested by at	
DNA replication, chromosome replication, chromatid, d		1960 A	pr p 72–80 [271]
	June p 36–42 [60]	solar system, astronomical unit, space exploration, Ve	nus probes,
ultraviolet radiation, mutation rate, radiation damage		radar, Earth Sun distance more precisely measured	
	967 Feb p 36–43	atallan estatuan atallan avalutuan annut sana annut sana a	961 Apr p 64-72
aging, fibroblasts mitosis cell culture, somatic cells, o	ar p 32–37 [1103]	stellar rotation, stellar evolution, spectroscopy, violet	
in aging 1968 Ma 'Okazaki fragments'	1968 Aug p 43	correlation of rotational velocity with mass 19 hydroxyl radical, microwaves, galaxy, radio-absorptio	963 Feb p 46–53
DNA repressor, DNA operator, gene expression, gene r			965 July p 26–33
restriction endonuclease, operator-repressor system		planetary motion radar astronomy, delay-Doppler ma	anning Mercury
	in p 64-76 [1333]		968 July p 28–37
DNA-RNA hybridization, DNA repeat segments, evolu-		spectroscopy, red shift, quasars, shell hypothesis, radio	osource
	pr p 24-31 [1173]		970 Dec p 22-29
DNA sequence, bacteria, proteolysis, infection, viral Di		energy levels, gas laser, laser spectroscopy, spectroscop	D)
enzymes bacterial recognition and rejection of exc	tic DNA	19	973 Dec p 69-85
	ıр 88–102 [1167]	Doppler shift, interstellar gas, magnetic field, radio 'phot	tographs'.
DNA structure, protein structure, amino-acid sequence		structured in shells and filaments rather than clouds	s
colinearity, mutation, gene mapping, base 1967 M		1978 Ja	an p 74-84 [394]
DNA synthesis, autoradiography, bacterial chromosom		dormancy, adaptation germination seed dispersal	959 Apr p 75–84
thymine, incorporation in DNA chain, relation of chain 1966 J.		biological clock, circadian rhythm, diapause, insect be	havior, insect
virus ~ X 174, cell free system, DNA polymerase, aci	an p 36-44 [1030]	metabolism photoperiodicity 1976 Feb	p 114–121 [1335]
first test-tube synthesis of biologically active DNA		dormin, auxins, plant growth, cytokinins, plant hormone	s, giberellin
1968 C	oct p 64-78 [1124]	Dorset culture, Arctic, Stone Age hunters, Alaska, Siberi	y p 75-81 [1111]
lac operator, recombinant DNA	1977 Jan p 47	circumpolar Stone Age culture	a, Greenland,
DNA transcription, electron microscopy, gene action vi	sualized,	village in Alaska	954 June p 82–88
ribosome, mRNA 1973 M	[ar p 34-42 [1267]	dosimetry, cancer therapy, isotopes, X-ray, radiotherapy	1954 Sept p 78
process of RNA synthesis	1962 Feb p 76	radiation roentgenology, nuclear medicine, radiatio	on use in
'split' genes	1978 Feb p 76	medicine 1950	Sent n 164 176
DNA virus, adenoviruses, cancer virus SV40 virus, DN	A recombination,	double bind, schizophrenia emotional illness psychoana	licis no chieta
gene transformation tumor-virus antigen virus et		psychosis neurosis, taxonomy of emotional illness	family therapy
Doctor of Philosophy, see Ph D	1966 Mar p 34-41	1062 A	10 n 65 74 (4/0)
doctor-patient relations, medical care, medical jargon	1972 Aug n 66 74	double nelly, DNA, X-ray crystallography, genetic code,	structure of
medical care informed consent medical ethics plac	cbos	DNA resolved 1954	Oct 5 54 61 161
r i princ	1974 Nov p 17-23	chromosome replication DNA replication, chromatid	, micromechanics
	• • •	double stars, see binary stars	une p 36-42 [60]
		omary state	

Douglass dendrochronology squares house, A.F. P.		
Douglass, dendrochronology, science history, A E Douglass and tree-ri- clock 1952 Jan p 54-	50 1970 July	
Down's syndrome, epidemiology, stress, anoxia, pregnancy, trisomy 21	1973 Oct	p 50
chology of Down's syndrome 1957 Feb in 60.	Sharana addition of the state	
chromosomai anomalies, Klinefelter's syndrome, trisom, 21 genetic	drug-effectiveness, evaluation 1966 Aug	
detect, meiosis, mitosis, gene translocation, nondistinction	drug effects, chemotherapy, liver function, pharmacology, vaccine,	p 42
afflictions associated with abnormal chromosome complement	normone, antibiotics, medical care, berbial medicine	
leukemia, leukocyte, cancer, chemotherapy, virus, ionizing radiation,	UI 1973 Sept p 102	-112
origin and treatment of lymphocytic and granulocytic leukemia	acetylcholine, adrenalin, catecholamines, dopamine, nerve physiolo	
1964 May n. 88-9	neurotransmitters, noradrenaline 1974 June p 58-71 [1 drug inactivation, alcohol metabolism, detoxification, enzyme, liver	297]
amniocentesis, enzyme deficiency, genetic disease, prenatal genetic	function, metabolism of drugs, cirrhosis 1975 June p 22-31 [1	3221
diagnosis, hemophilia, Tay-Sachs disease, chromosomal anomalies	drug-induced imagery, central nervous system, hallucination, perceptu	al
partial trisomy 1971 Nov p 34-42 [123-	l] illusions, perceptual-release theory 1977 Oct p 132–140 [579]
fortilers and disc	- Branding pharmaceutical maustry, prostheses, 1 Dri, mean	al
drainage, chinampa, canals, Mexican agriculture, agricultural system,	ocare, medical economics, drug research, medical laboratory servic 1973 Sept p 161-	
Aztec civilization, highly productive farm plots, Aztec empire	FDA wants physician's OK for refills 1949 Aug p	
1964 July p 90~98 [648		
drainage patterns, climatic change, water erosion, rivers, river evolution	uses of tissue culture 1956 Oct p 50	
dreams, psychoanalysis, Freud 1949 May p 44-47 (495		
dreams, psychoanalysis, Freud 1949 May p 44-47 [495 content analysis, 10,000 dreams 1951 May p 60-6		166
sleep, electroencephalography, REM sleep, function of dreams	drug resistance, bacteria, gene transformation, streptomycin,	100
1960 Nov p 82-88 [460	pneumococcus, recombinant DNA, biochemistry of Avery, McLeo	od
sleep research, electroencephalography, reticular formation, brain	and McCarty experiment 1956 Nov p 48-53 [[8]
waves, paradoxical sleep, REM sleep, cat brain, the states of sleep	mutation, penicillin, bacteriology 1961 Mar p 66-	-71
1967 Feb p 62-72 [504]		27
drilling platforms, marine technology, ocean, supertankers, submersibles, containerization, technology and the ocean	resistance, multiple resistance 1967 Dec p 19- antibiotic resistance, bacteria, infectious disease, gene mutation	21
1969 Sept p 198–217 [887]	plasmids. Rh factor, bacterial conjugation	
drip irrigation, irrigation, trickle irrigation, agricultural technology	1973 Apr p 18–27 [126	59]
1977 Nov p 62-68 [1371]	drug therapy, fatty acids, feedback, hormone-like substances, nervous	251
droplet-levitation technique, cavitation, liquids, negative-pressure	system, prostaglandin 1971 Nov p 84-92 [123 drugs, tuberculosis, facilitate surgery 1954 Sept p	80 80
concept, tensile strength, surface tension 1972 Dec p 58-71 dropsy, digitalis, foxglove, heart physiology, digitoxin, cardiac	drugs, tuberculosis, facilitate surgery 1954 Sept p of Druid holiday, Halloween, anthropology 1951 Oct p 62-4	56
insufficiency, history of digitalis 1965 June p 110–119	drums. African drum language, communication, gong language, talking	
Drosophila, population genetics, evolution, E coli, mutation, sexual	drums 1971 Dec p 90-3) 4
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evolution 1950 Jan p 32-41 [6] drought, dust storms, dry-land farming, soil reclamation, agricultural	dry ice, weather control, cloud seeding, silver iodide, Project Circus,	
technology, mulch, shelter belts, U.S. High Plains 1948	condensation nuclei 1952 Jan p 17-2	1
1948 Aug p 7–11	dry ice fogs, Mars, Martian atmosphere, dust storms, wind erosion,	2
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1954 Dec p 80-86	agricultural technology 1954 July p 25-25 dual-resonance model, high-energy physics, hadrons, high-tenny,	•
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hinger stars photophoresis gravitational	1948 May p 35-45	aurora, airglow, corpuscular streams, solar spic	
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dyslexia, visual perception, bilingualism, e	1965 July p 92–99 Se movement, grammatical	electromagnetic waves, micropulsations, magn longest electromagnetic wave	netic field, Earth mantle, 1962 Mar p 128-137
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geochronology, ocean 11001, geology 1900-1990	sonar, imaging internal organs by ultrasound
	1978 May p 98-112 [1389]
earthquake deformations, Later's woodsteen the deformation and the deformation and the deformation are deformed to the deformation are deformed to the deformation and the deformation are deformed to the deformation are deformed to the deformation and the deformation are deformed to the deformation and the deformation are deformed to the deformation are deformed to the deformation and the deformation are deformed to the deformation are deforme	echo viruses, enteroviruses, poliomyelitis virus, Coxsackie virus, tissue
seismic waves, volcarib and a prediction ground motion, seismic	culture, epidemiology, benign and infectious intestinal viruses 1959 Feb. p. 88-97
earthquake dynamics, earthquake prediction 1977 Dec p 68–78 [928] waves, strong-motion seismology 1977 Dec p 68–78 [928]	polynea see solar eclipse
waves, strong-motion seismology earthquake effects, Chandler wobble, Earth rotation, precession 1971 Dec p 80-88 [897]	eclipse phenomena, chromosphere, corona photosphere, solar corona
1070 1 46	Sun 1973 Oct p 68–79
earthquake in Peru, glacier-mud damage	predicted by Maya 1973 Nov p 50
earthquake in Peru, glacier-mud damage earthquake prediction, laser, strain gauge, interferometry, Earth crust 1969 Dec p 88-95	ecological adaptation, animal behavior, habitat selection heredity, learning, field experiments with mice 1964 Oct p 109-116 [195]
plate-boundary stresses, seismology, earthquake precursors 1975 May p 14-23 [917]	beginning tools and and a second of the seco
1975 May p 14-25 [517]	

ecological cycles, DDT residues, insecticide, fallout, food chain,	epidemiology, morbidity, mortality rates, income status, occupational
ecological redistribution of pollutants 1967 Mar p 24-31 [1000]	health, 'social medicine', environment, material well-being, behavior of disease 1949 Apr p 11-15
ecological fragility, rain-forest ecosystem, slash-burn agriculture, tropical	of disease 1949 Apr p 11-15 tuberculosis, tubercle bacillus, mortality rates, public health, science
rain forest, fungal hyphae 1973 Dec p 38-67 [1286] ecological niche, extinction, species specificity, adaptation, natural	history, popularization of well-being, not therapy, ends 'white
selection, evolutionary radiation, 'Is man here to stay''	plague' 1949 Oct p 30-41
1950 Nov p 52–55	world population, Malthusian doctrine 1950 Feb p 11-15
symbiosis, reef ecology, cleaning behavior, animal behavior, behavioral	developing countries, technical assistance, industrialization, 'point
integration of reef ecology 1961 Aug p 42-49 [135]	four' 1950 Mar p 16–19
cryptozoa, Berlese funnel, natural history, cryptosphere, animal	agricultural production, poverty, education, language, Peru, literacy, Cornell-Peru experiment in economic development
behavior, life under rocks and rotting logs 1968 July p 108–114 [1112]	1957 Jan p 37–45
danger of intercontinental animal transport 1957 Apr p 76	soil erosion, irrigation, agricultural technology, poverty, afforestation,
ecological staircase. Pacific Coast marine terraces 1976 Apr p 56	Mediterranean Project, United Nations 1960 July p 86–103
ecological system, feedback, control loop, servomechanisms, flybali	irrigation, Mekong river, monsoons, floods, hydro-engineering, rice,
governor, positive feedback, negative feedback, nervous system,	Mekong river plan, United Nations 1963 Apr p 49-59
economic system, automatic control, feedback concept 1952 Sept p 48-55	technology transfer, Industrial Revolution, introduction to single-topic issue on technology and economic development 1963 Sept p 52-61
ecological warfare, bomb craters, cratering, defoliation, laterization,	demographic transition, industrialization, urbanization, population
Vietnam war 1972 May p 20–29 [1248]	control, family planning, economic development and the
ecology, Krakatoa, volcanic eruption, plant succession	demographic transition 1963 Sept p 62–71 [645]
1949 Sept p 52–54	agricultural technology, technology transfer, human nutrition, food
eelgrass, marine ecology, foodchain, fungal infection, account of an	production, nutritional self-sufficiency in economic development
ecological catastrophe 1951 Jan p 52–55 strangler trees evolution tropical rain forest 1954 Jan p 78–80	1963 Sept p 72–80 [1153] industrialization, water supply, irrigation, desalination, water resource
strangler trees, evolution, tropical rain forest estuary, natural history, a teeming life province 1954 May p 64-68	management, technology and economics of water in economic
alfalfa caterpillar, insecticide, life cycle, agricultural pest, wilt disease,	development 1963 Sept p 92–108
predation 1954 June p 38-42	energy technology, industrialization, population, fuel consumption,
caves, degenerative evolution 1955 May p 98-106	energy resources, energy requirements and resources for economic
foodchain, food chain, human population, population density, 'the	development 1963 Sept p 110–126 technology transfer, industrialization, mineral resources, metal
human crop' 1956 Apr p 105-112 energy cycle, biomass, solar energy, food chain, element abundance,	consumption, natural resources and technological substitution
autotrophs, heterotrophs, the ecosphere 1958 Apr p 83–92	1963 Sept p 128–136
climate, marshland, swamp, eutrophication, wetlands, natural history	industrial technology, industrialization, education, human-resource
of marsh, effect on climate 1958 Oct p 114–122 [840]	development, education for economic development
fire, forestry, grassland, forest fire, role of fire in climax ecology	1963 Sept p 140–147 input-output analysis, developed countries, developing countries,
1961 Apr p 150–160 [1099] Antarctica, oceanography, manne biology, food chain, krill, blue	complementary economic structures of developed and
whale, Antarctic convergence, biological province of Antarctic	underdeveloped countries 1963 Sept p 148–166 [617]
convergence 1962 Sept p 186–210	industrial technology, Nigeria, technology transfer, tribal politics,
Antarctica, fauna, flora, lichens, blue-green algae, Antarctica terrestrial	economic development of former colonial region
life 1962 Sept p 212-230 [865] predation, plant toxins, food chain, milkweed, blue jay, predator-prey	1963 Sept p 168–184 industrialization, population control, agricultural production,
relationship, mimicry, chemical defense against predation	technology transfer, food production, economic planning, India,
1969 Feb p 22–29 [1133]	economic development by democratic planning
calefaction, Connecticut River, fission reactor, thermal pollution,	1963 Sept p 189–206
industrial cooling, nuclear power, fisheries, fish crisis	industrialization, tropical rain forest, subsistence economy, tropical
1970 May p 42–52 [1177] forest communities, lichens, algae, food chain, nitrogen cycle, treetop	rain forest, urbanization, resource management, Brazil, uneven national development 1963 Sept p 208-220
ecosystems 1973 June p 74–80 [1274]	industrialization, national economic policy, agricultural technology,
forest succession, trees, leaf distribution 1975 May p 90–98 [1321]	Federal intervention in economic development of U S South
Australia, behavioral adaptation, insect behavior, sand wasps, solitary	1963 Sept p 224-232
insects, Bembix 1975 Dec p 108-115 surface tension, water-strider, backswimmer, whirligig beetle,	industrialization, technology transfer, economic planning, market
springtail, aquatic insect, insects of the water surface	process versus planning in economic development 1963 Sept p 235-244
1978 Apr p 134–142 [1387]	birth control, family planning, population growth, promotion of birth
bacteria in sourdough 1973 Nov p 50	control in Taiwan 1964 May p. 29–37 [621]
see also reef ecology, ecosystem, climax ecosystem, sand dune ecology and the like	agricultural technology, People's Republic of China, industrial
ecology of soil, soil structure, chernozems, podzols, latozols, tundra,	technology, technology in People's Republic of China
alluvial soils, agronomy, soil erosion, the soils of the world and their	USSR, industrial technology 1966 Nov p 37–45 1968 Dec p 17–23
management 1950 July p 30-39	arms production, military expenditures, arms trade, arms race, the
economic analysis, 'cost push' inflation, 'demand-pull', inflation, input-	world cost of the arms race 1969 Oct p 21–27 [650]
output analysis 1971 Nov p 15–21 business cycle, economic forecasting, economic indicators	Japan, employment policy, investment, debt financing, government-
1975 Jan p 17-23	business relations, Japan's economic growth 1970 Mar p 31-37 energy, power machines, mechanical energy, biological energy, power,
economic botany, hickory, fences, axe-handles, smoked ham, hickory	introduction to a single-topic issue on energy and power
nuts, forest, natural history, shagbark hickory 1948 Sept p 40-43 Economic Commission for Europe, economic development, European	1971 Sent p 36-40 (661)
economy, trade deficit, East-West trade, industrial reconstruction	military expenditures, cold war, politics of aid, 'rich' nations, 'poor'
1948 July p. 9–15	Chinese industry, technology, progress of People's Republic of China
economic development, European economy, trade deficit. Economic	in computer electronics, instrumentation and control technologies
Commission for Europe, East-West trade, industrial reconstruction	1972 Dac p 12 17
1948 July p 9-15 Middle East oil, petroleum resources, energy economics, Persian Gulf	or yell recliniology, lechnology history 1072 May - 01 01
fields, Iran, Iraq Saudi Arabia 1948 Sept p 9-15	demographic transition, human population, population explosion, zero population growth, introduction to single-topic issue on the human
·	population 1974 Sept p 30–39
	.>- scht b 30-39

China, rice, hybrid wheat, agricultural technology, hybrid rice,	anaray ayala faray and
irrigation, in estock 1975 June - 12	energy cycle, forest, partitioning of energy in a New England forest
distribution of wearth, middle classes, population growth, production	17/0 Wat n 9/~111111341
statistics, natural resources, demographic transition	and a second contraction, child volue development, playing garing
1976 July n. 20	fertilization, mesoderm, endoderm, embryological 'organizer', science history, review of classical embryology
green revolution, nunger, population, food and agriculture	the state of the s
introduction to single-topic issue on food and agriculture	1957 Nov p 79-88 [103] ectoniorphs, into government 1951 Dec p 40
det alanum rounts at 1976 Sept p 30-	70
developing countries 'green revolution', technology transfer, food and	1060 Ion = 100 115 111271
agriculture 1976 Sept p 196-2	05 flea tump insect cuttele insect flight flea regular as electomer
Congo research center 1948 Oct p	24 1973 Nov. p. 92-100 (1284)
world economy turns up 1949 Mar p	26 Skin, 'New Year Greeting' a noem by W.H. Auden occasioned by
U.N. laboratories 1949 Nov p	30 article in January 1969 issue 1969 Dec. p. 134
science in India 'too many Indiana' 1950 Jan p	30 ectothermy, 'cold-blooded' animals, metabolism, beterothermy insect
'too many Indians' 1954 Jan p	40 flight, sphinx moths, temperature regulation, Mandura sexta warm
U.N. survey of scientific resources 1960 Aug p	70 up mechanisms 1972 June p 70–77 [1252]
rich and poor countries 1972 Sept p 6 comparative growth rates 1973 June p 6	birds, dinosaurs, endothermy, metabolism birds descended from
poor countries, rich countries economic forecasting, business cycle, economic analysis, economic	
	1966 Jan p 28–35
indicators 1975 Jan p 17-2 economic geography, urban planning Ciudad Guyana, cities, land	
ownership, highway engineering, a model city in Venezuela	atmospheric circulation 1968 Jan p 100-113
1965 Sept p 122–13	negative viscosity, turbulence, wind, nonuniform flows, rotating systems, viscosity 1970 July p 72-80
energy economics, energy storage, pipelines, power transmission,	
tankers, power, economic geography of energy production,	edge dislocation, crystal structure dislocations, soap bubbles slip planes 1955 July p 80-87 [204]
distribution and consumption 1971 Sept p 164–175 [669	edge tone, feedback, vortex, aerodynamic whistles, hole tone, sound
economic indicators, business cycle, economic analysis, economic	waves, whistles flutes organs and rocket engines 1970 Jan p 40-46
forecasting 1975 Jan p 17–23	Edison, electric light, incandescent lamp, industral research science
economic planning, Amazon, tropical rain forest, developing countries,	history, Thomas A Edison, biography 1959 Nov p 98-114
resource prospecting, forest management, mineral resources, electric	education, agricultural production, poverty, economic development
power, the Amazon frontier 1948 May p 11-14	language Peru literacy, Cornell-Peru experiment in economic
economic development, industrialization, population control,	development 1957 Jan p 37-43
agricultural production, technology transfer, food production, India,	mathematics teaching curriculum reform high school, university
economic development by democratic planning	sponsored curriculum reform 1958 May p 64-74 [238]
1963 Sept p 189–206	learning memory, experimental psychology, 'drill' in learning 1958 Aug p 68-72 [422]
economic development, industrialization, technology transfer, market	1938 Alig p 00-72 [42-7]
process versus planning in economic development 1963 Sept p 235-244	teaching machine operant conditioning, inductive reasoning rhythm self-teaching by small rigorous steps 1961 Nov p 90-102
decision theory, energy economics power production, technology	US population, labor force, age-sex distribution, demographics gross
assessment, tort law, market process 1971 Sept p 191–200 [671]	national product ITS census more from the ITS census of 1900
economic power, black power, American Negro, racial discrimination,	1962 Oct p 30-37
group identity, ethnic groups, slavery, social deprivation	industrial technology, economic development, industrialization
1967 Apr p 21–27 [633]	human resource development, education for economic development
economic regionalism in U S., natural gas, pipelines, appraisal of natural	1963 Sept p 140-147
gas, economics and resources in U S 1951 Nov p 17-21	poverty, group behavior, rural poverty, community action, emotional
economic system, feedback, control loop, servomechanisms, flyball	illness social psychology, study of community regeneration 1965 May p 21-27 [634]
governor, positive feedback, negative feedback, ecological system,	computer technology, teaching machine programmed instruction
nervous system, automatic control, feedback concept 1952 Sept p 48-55	individualized teaching 1966 Sept p 206-220 [533]
economics, psychology, economic psychology 1954 Oct p 31–35 [452]	Nobel prizes university education, sociology, scientific careers
input-output analysis, arms control, military expenditures, impact of	sociology of the Nobel prizes 1967 Not p 25-33
disarmament on 11 S economy 1961 Apr p 4/-55 [611]	teacher expectation and pupil performance 1967 Nov p 54-59
mathematical model, social sciences decision theory, mathematics in	'psychology of desegregation' 1957 May p 68
and other social sciences 1964 Sept p 108~182	USSR 1958 Jan p 44 Perceptron, self-teaching machine 1958 Sept p 88
input output analysis U.S. economy, interindustry transactions, 1938	
U S Department of Commerce input-output table 1965 Apr p 25-35 [624]	education funding, Hill-Elhot bill 1958 Apr p 46 curriculum reform U S National Science Foundation program
automatic control, technology, input-output analysis, labor force, US	1958 July p 4/
impact of technological change, 1947-1958, input-output tables	US Federal 1958 Oct p 52
impact of technological change, 1977 1966 Apr p 25-31 [629]	educational performance, social deprivation, teacher expectations
critique of 'Limits to Growth' 1974 Feb p 42	experiment in self-fulfilling prophecy for disadvantaged children
	1968 Apr p 19-23 [514] educational research, National Institute of Education 1972 May p 48
	educational research, National Institute of Education 1972 May p 48 educational TV, channels dedicated 1951 May p 34
ecosystem, climax ecosystem chergy cycles 1070 S 64 74 [1100]	eelgrass, marine ecology foodchain ecology, fungal infection account of
biosphere energy cycle 1970 Sept p 04-74 [1190]	an ecological catastrophe 1951 Jan p 52-55
forestry, nitrogen fixation, resource management, ration, resource management	efficiency, desert plants C-4 trait plant breeding
watershed, deforestation, deforestation expenses a 1970 Oct. p. 92–101 [1202]	1973 Oct p 80-93 [1281]
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energy cycle Eskimo, hunting societies, food chain but p 104–115 [665]	hatching eggs in hot places 1959 Aug p 52-58 agricultural technology poultry production food production animal
Island	bushandry chicken U.S. chicken factories 1966 July p. 56-64
Guinea tropical agriculture 1971 Sept p 116–132 [666] Guinea tropical agriculture 118 accompts power, environmental	****
	mosquitoes yellow fever sexual behavior reproduction larvae Aedes
Guinea tropical agriculture energy cycle, industrial society, U S economy, power, environmental protection 1971 Sept p 134-144 [667]	mosquitoes yellow fever sexual behavior reproduction larvae Aedes Aegypti 1968 Apr. p. 108-116

eggshell, bone, calcium metabolism, chicken, calcite, mobilization	of public opinion, voting behavior, attitude survey, election of 1952
calcium from bone 1970 Mar p 88–9.	
thickness gauge 1967 Fe eggshell thinning, calcium metabolism, pollution, chorinated	applications, gerrymander 1965 Nov p 20–27
hydrocarbons, DDT, dieldrin, avian reproduction, insecticide	, food public opinion, voting systems, paradox inescapable
chain, ecological effect of pesticides 1970 Apr p 72–7	
Egyptian civilization, Rhınd papyrus, mathematics 1952 Aug 1	24–27 computerized voting 1975 Aug p 47
Nile valley, Sakkara, burial site, pharaohs, tombs of the first pharaohs,	araohs electric arc, plasma jet, heat, magnetohydrodynamics, 30,000 degrees F
1957 July p	106–116 torch, applications 1957 Aug p 80–88
Egyptian glass, glass, glassmakers, Roman glass, faience, chemical	and electric automobile, automobile, battery, air pollution, weight, cost,
physical analysis of ancient glass 1963 Nov p	120–130 performance of electric automobile 1966 Oct p 34–40 battery research 1966 Dec p 65
eidetic images, vision, child psychology, perceptual memory, 'photographic' memory 1969 Apr p 36-	
demonstration 1970 Mg	
Eiffel Tower, wind bracing, skyscrapers, construction technology,	electric current, Josephson effects, superconductivity, microwave
cantilever, truss bridge, steel frame construction, curtain wall	emission, tunnel junction, quantum mechanics, confirmation and
1974 Feb p	
'eightfold way', high-energy physics, baryons, mesons, 'strong' for	ee, electric field, atmospheric ionization, thunderstorms, Wilson hypothesis, otstrap' atmosphere, thunderstorms replenish Earth's charge
conservation laws, Regge trajectory, resonance 'particles', 'bo hypothesis 1964 Feb p 74-	93 [296] 1953 Apr p 32–37
mathematics, physical sciences, group theory, field theory, S-ma	
theory, mathematics in physics 1964 Sept p	128–146 of non-uniform electric fields 1960 Dec p 106–116
alternating-gradient synchrotron, omega-minus particle, bubble	bioluminescence, electric fishes, animal navigation 1963 Mar p 50-59
chamber, particle accelerator, high-energy physics, U S Broo	khaven Gunn effect, microwave emission, negative resistance, solid state
National Laboratory experiment 1964 Oct einkorn, wheat, wild einkorn, emmer, hybrid cells, fungi, chromos	
doubling, plant breeding, origin and perfection of wheat	plasma, solar radiation, ionosphere, Earth magnetic field,
1953 July	
Einstein, relativity, photoelectric effect, work of Albert Einstein	clouds from rockets 1968 Nov p 80–92
appraised at 70 1949 Mar	
quantum mechanics, Planck, science history, spectroscopy, black	ck body, magnetic field, behavior of atoms under high pressure
resonators, photoelectric effect, Compton effect, quantum ju 1952 Mar p 47-	
tributes to Albert Einstein by Niels Bohr and I I Rabi	synapse, acetylcholine, animal behavior, nerve impulse,
1955 June	
interview with Albert Einstein two weeks before his death	bioluminescence, electric field, animal navigation 1963 Mar p 50-59
1955 July	
gravity, inertia, Galilean relativity, frames of reference, philoso science, relativity, identity of inertia and gravity	phy of indoor lighting 1957 Aug p 40-47 [221] incandescent lamp, industral research, science history, Edison, Thomas
1957 Feb p	
Lorentz transformation, relativity, child development, child's v	new of indoor lighting panels 1951 Mar p 28
reality 1957 Mar	
gravity, time-space continuum, electromagnetism 1961 Mar p	
publishes 'unified field theory' 1950 F einsteinium, californium, table of elements, fermium, 'synthetic' e	eb p 24 mineral resources, the Amazon frontier 1948 May p 11–14 lements, Hauksbee, light, science history, life and work of Francis Hauksbee
transuranium elements, mendelevium, radioactive decay, pe	
table at 101 1956 Dec p 66	-80 [243] alternating current, high-voltage transmission, power transmission.
El Inga site, anthropology, Paleolithic culture, stone tools, obsidi	
Andes, prehistoric man in the Andes 1963 May p El Niño, Peru Current, anchovy, guano, seagulls, upwelling	
1954 Mar	battery, electrochemistry, Volta, Galvani, Volta's contributions, biography 1965 Jan p 82–91
anchovy crisis, fishing, upwelling, Peru Current, Peruvian anch	ovy fission reactor, energy demand, nuclear power, fossil fuel, energy
1973 June p 22-	29 [1273] economics, history and prospects of nuclear power in US
Elamite culture, ziggurat, religion, Tower of Babel, Biblical arche	
1000 B C, Iran 1961 Jan ancient trade, archeology, writing, Mesopotamian culture, Per.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sumer, Iran, Tepe Yahya 1971 June p 102-	111 [660] magnetohydrodynamic plasma generator 1959 Dec. p. 80
eland, malnutrition, food supply, human population, hunger, hu	nan platinum catalyst fuel cell 1963 June p 78
nutrition, Incaparina, capybara, manatee, mussels, developi	ng Passamaquoddy Bay project 1963 Sept p 83
countries, unorthodox food sources 1967 Feb p 27- elastase, catalytic proteins, enzyme action, protein-cutting enzym	1504 TED P 06
proteolytic enzymes, serum proteins, chymotrypsin, trypsin	nuclear capacity worldwide 1965 Sept p 80 nuclear power prospects 1966 Feb p 50
1974 July p 74-	88 [1301] load-leveling 1977 July p. 58
elastic energy, adhesive, molecular attraction, surface tension, ep	loxy electric power generation, gas turbine, aircraft propulsion, centralized
resins, molecular repulsion, micromechanics of adhesion 1962 Apr p	compressor, axial-flow compressor, ducted fan 1953 Nov. p. 65-72
elastin, collagen, keratın, myosın, fıbrın, cell, polymers polymer	the state of the s
cells 1957 Sept p 204	1-216 [35] ship propulsion steam turbines, turbine blade design construction of
collagen, fibroblasts, microfibrils 1971 June p 44.	-52 [1225] turbines applications, history 1969 Apr. p. 100_110
elastomers, butadiene, rubber synthesis, isoprene, vulcanization, synthetic rubber, molecular structure 1956 Nov	tarea, Earth heat, geothermal power 1972 for a 70 77 report
polymers, X-ray diffraction, molecular structure, mechanical	automobile propulsion, energy storage, composite materials, materials
of grant molecules 1957 Sept p	120-134 automatic control computer technology generator control
	1074 No. 24 44
election-district boundaries, computers 1964 Mar elections, mass communications public opinion, attitude survey	photovoltaic conversion semiconductor technology, silicon-crystal
1953 May	Structure, Solar Cells 1074 O

	at a series
electric 'wind', electric field, electrophoresis, non-uniform electric field, applications of non-uniform electric fields 1960 Dec p 106-1	
electrical conductivity, crystal structure, solid-state electronics. Y-roy	suppression, magnetiane veinere, magnetic levitation,
crystallography, metals, semiconductor, nonmetals, materials technology, amorphous solid 1967 Sept. p. 80-	electromagnetic force, matter wave posted dueles accordants
Fermi surface, semiconductor, materials technology, quantum	nuclear forces, gravitation, field theory, fundamental research
mechanics, charge carriers, electron mean free path, electrical	quantum jumps, corpuscular streams, what is matter?
properties of materials 1967 Sept. p. 194. 2	04 1953 Sept p 52-57 [241]
electrical little, Franklin, science history, sentry-box experiment	nuclear forces, proton, neutron, mesons, particle scattering, high- energy physics, fundamental research, what holds the nucleus
electrical nature of lightning, Benjamin Franklin, life and work	together? 1953 Sept p 58-63
1948 Aug p. 36	particle interaction, high-energy physics, gauge theory, field theory,
electrical induction, stellar magnetic fields, cosmic radiation, radio emissions, megnetohydrodynamics, electricity in space	'weak' force, 'strong' force 1974 July p 50-59
	particle interaction, gauge theory, neutrino interactions, 'weak' force,
1952 May p 26-2 Faraday, science history, life and work of Michael Faraday	
1953 Oct n. 90-9	gravity, 'weak' force, 'strong' force, supergravity, symmetry, quest for unified theory of basic forces 1978 Feb p 126-143 [397]
science history, radiowave, Henry, life and work of Joseph Henry	electromagnetic frequency shift, artificial satellite, relativity theory,
1954 July n. 72–7	Mercury, stellar shift, perihelion shift, clock paradox, general
electrical nature of lightning, Franklin, science history, sentry-box	relativity, testing Einstein's general theory of relativity
experiment, 'electrical fluid', Benjamin Franklin, life and work	1959 May p 149-160
1948 Aug p 36-4 electrical properties of metals, BCS theory, crystal structure, intermetallic	electromagnetic induction, dynamo, science history, Faraday to dynamo
compounds, intercalated crystals, superconductors, layered	electromagnetic pulse, see EMP
superconductors 1971 Nov p 22–3	
electrical propulsion, ion propulsion, plasma jet, jet velocity, cesium-ion	particle accelerator, search for elementary particle of magnetism
beam, magnetohydrodynamics, space exploration	1963 Dec. p 122–131
1961 Mar p 57-6	
electrical resistance, superconductivity, magnetism, cryogenics, upper limit of temperature of superconductivity	1976 May p 86-96
1957 Nov p 92–103 [227	electron-hole liquid, exciton, quantum mechanics, semiconductor 1976 June p 28-37
electrocardiography, cardiology, cardiac 'conduction bundle', electrical	electromagnetic spectrum, radio, science history, electromagnetism
events in the heart 1961 Nov p 132-141	Hertzian' waves, Heinrich Hertz biography 1957 Dec p 98-106
cardiac arrhythmia, intensive care, coronary care unit, fibrillation,	arradiation standards, microwave diodes, microwave radiation, 175k
coronary occlusion, nerve conduction, heart infarct	estimation, technology assessment 1972 Feb p 13-21
1968 July p 19–27 learning, autonomic nervous system, heart rate, blood pressure, curare,	carrier-wave modulation, coaxial cable, communication technology, fiber optics, radiowave, communication channels, bandwidth nose
learning voluntary control of autonomic nervous system	1972 Sept p 98-113
1970 Jan p 30–39 [525]	electron manipulation, electron storage rings, spectroscopy,
electrochemical machining, electrolysis, metal forming	synchrotron radiation, X-ray lithography, X-ray probe, uses of synchrotron radiation 1977 June p 32-41 [365]
1974 Jan p 30-37 electrochemistry, phlogiston theory, electrolysis, Davy lamp, science	synchrotron radiation 1977 June p 32-41 [203] electromagnetic waves, Earth core, micropulsations, magnetic field, Earth
history, Humphry Davy, biography 1960 June p 106–116	mantle, longest electromagnetic wave 1962 Mar p 128–137
battery, electric power, Volta, Galvani, Volta's contributions,	diffraction, light, wave-particle duality, optics, interference, photon
	emission, introduction to single topic issue on light
electrocoating, air pollution, corona discharge, fly ash, electrostatics,	1968 Sept p 30-39
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17
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electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26-39 [13]	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Rullard hypothesis, theories on origin of terrestrial magnetism
electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26-39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis,	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk
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electrocoating, air pollution, corona discharge, fly ash, electrostatics, photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46–58 electroencephalography, brain, cerebral cortex, cerebrum, cerebellum, brain surgery, 'the great raveled knot', localization of brain function 1948 Oct p 26–39 [13] brain waves, alpha rhythms, medical diagnosis, Fourier analysis, toposcope display, automata theory 1954 June p 54–63 perceptual isolation, hallucination, boredom, neuropsychology, sensory deprivation, effect of exposure to monotonous environment 1957 Jan p 52–56 [430] brain waves, learning, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96 dreams, sleep, REM sleep, function of dreams 1960 Nov p 82–88 [460] brain waves, computerized EEG observation of behavior in man, localization of brain function 1962 June p 142–153 dreams, sleep research, reticular formation, brain waves, paradoxical sleep, REM sleep, cat brain, the states of sleep 1967 Feb p 62–72 [504] electrolysis, electrochemistry, phlogiston theory, Davy lamp, science history, Humphry Davy, biography 1967 June p 106–116 electrochemical machining, metal forming 1974 Jan p 30–37 electrochemical machining, metal forming 1974 Jan p 30–37 electrolyte balance, shock, traumatic shock, capillary bed, cardiovascular 1952 Dec p 62–68 system, blood transfusion 1952 Dec p 62–68	electromagnetism, unified field theory, gravity, nuclear forces, 'On the Generalized Theory of Gravitation', a personal account by Albert Einstein 1950 Apr p 13-17 geomagnetism, permanent magnets, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of terrestrial magnetism 1950 June p 20-24 Maxwell's equations, field theory, life and work of James Clerk Maxwell 1955 June p 58-71 radio, science history, 'Hertzian' waves, electromagnetic spectrum, Heinrich Hertz biography 1957 Dec p 98-106 magnetism, magnetic field, force-free windings, million gauss field 1958 Feb p 28-33 geomagnetism, geophysics, magnetohydrodynamics, convection currents, Earth core, origin of terrestial magnetism 1958 May p 44-48 molecular physics, intermolecular force, Coulomb force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53 gravity, time space continuum Einstein 1961 Mar p 94-106 superconductivity, shaped field, magnetic bottle, materials technology, development and applications of supermagnets 1962 June p 60-67 [279] muonium, muon, electron, elementary particles positronium, atom structure of muonium 1966 Apr p 93-100 niobium alloys, magnetism, superconductors, proton beam focusing generation of intense magnetic fields 1967 Mar p 114-123 electron discovery, induction coil radio discovery, X-ray discovery, science history 1971 May p 80-87

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electron, wave-particle duality, diffraction, interference fringes, electron	electron-multiplier tube, scintillation counter, particle accelerator,
diffraction, Davisson-Germer experiment 1948 May p 50-53	scintillation counters 1953 Nov p 36–41
elementary particles, proton, particle counters, neutron, positron,	electron-muon, leptons as family 1977 May p 55
mesons, photon, neutrino, particle accelerator, nuclear binding force,	electron optics, electronics, electron tubes, amplifiers, communication
'Meson Song' 1948 June p 26–39	technology, rectifiers, cathode-ray tube, communication, power,
positronium, positron, quantum electrodynamics 'model atom'	thermionic emission, state of the technology 1950 Oct p 30–39
1954 Dec p 88–92	communication technology, laser, pulse-code modulation, Kerr effect,
photographic emulsion, particle tracks, cosmic radiation, neutron,	Pockel's effect, polarization, modulators, modulation of laser light
proton, characteristic 'signatures' of particles 1956 May p 40-47	1968 June p 17–23
particle interaction, muon, 'weak' force, high-energy physics, properties	microcircuit fabrication, computer-controlled fabrication, silicon
of massive negative particle 1961 July p 46-55 [275]	'chips', computer technology, integrated circuits 1972 Nov p 34-44
muonium, muon, elementary particles, electromagnetism, positronium,	electron orbitals, alkalı-metal anions, alkalı-metal cations, cryptands,
atom, structure of muonium 1966 Apr. p 93–100	solvated electrons, quantum mechanics 1977 July p 92–105 [368]
atoms, elementary particles, neutron, proton, matter, structure of	electron pairs, energy transfer, superconductors, organic superconductor,
'ordinary matter' 1967 May p 126–134	proposal for room-temperature superconductor 1965 Feb p 21–27
antimatter, g factor, magnetic moment, electron spin, positron,	electron plasma, plasma physics, positive ion plasma, 'hole' plasma,
magnetic bottle 1968 Jan p 72-85	plasmas in solids as models for study of gas plasmas
photoelectric effect, color, reflection, refraction, light, resonance	1963 Nov p 46–53
absorption, photon, interaction of light with matter	electron-positron annihilation, antimatter, high-energy physics, colliding-
1968 Sept_p 60–71	beam accelerator, proton, parton model, quantum electrodynamics
electric potential in centrifugal motion measured 1968 Dec p 56	1973 Oct p 104–113
electron tubes, electronics, amplifiers, communication technology,	antimatter, J particle, psi particle, charm, color, quark, high-energy
rectifiers, electron optics, cathode-ray tube, communication, power,	physics storage rings, virtual particles 1975 June p 50-62
thermionic emission, state of the technology 1950 Oct p 30-39	electron-ring accelerator, collective-effect accelerators, particle
electron accelerator, linear accelerator, traveling-wave accelerator,	accelerator, particle-storage rings 1972 Apr p 22–33
internal drift-tube accelerator 1954 Oct p 40-44 [234]	1,000 GeV(?) 1969 Oct p 48
linear accelerator, Stanford Linear Accelerator Center, klystron tube,	electron scattering, atomic nucleus, nuclear physics, high-energy physics,
two-mile Stanford Linear Accelerator 1961 Nov p 49-57 [322]	particle-scattering experiments, models of the atomic nucleus
electron beam, cold cathode, current density, X-ray photography, field	1956 July p 55–68 [217]
emission 1964 Jan p 108–118	proton spin, spin, high-energy physics, 'strong' force, dependence of
light-emitting diode, semiconductor, laser, junction diode, solid-state	nuclear forces on spin 1966 July p 68–78
lasers 1967 May p 108–122	electron shells, molecular structure, computer modeling, quantum
electron diffraction, electron, wave-particle duality, diffraction,	chemistry, molecular orbits, computer graphics 1970 Apr p 54-70
interference fringes, Davisson-Germer experiment	electron shower, detection of cosmic ray events 1957 June p 70
1948 May p 50–53	electron spin, materials technology, ferromagnetism, magnetic domains,
crystallography, crystal structure, slow electrons as diffraction probe	hysteresis, magnetic properties of materials 1967 Sept p 222–234
1965 Mar p 32–41	antimatter, g factor, electron, magnetic moment, positron, magnetic
electron discovery, electromagnetism, induction coil, radio discovery, X-	bottle 1968 Jan p 72–85
ray discovery, science history 1971 May p 80–87	electron-spin resonance, aging, radiation damage, free radicals, chemical
electron 'gas', alloys, materials technology, metals, crystal structure, grain	bond, spectroscopy, effects of free radicals on living systems
boundaries, lattice defects, dislocations, nature of metals 1967 Sept p 90-100	1970 Aug p 70–83 [335]
electron-hole liquid, electromagnetic radiation, exciton, quantum	electron storage rings, electromagnetic spectrum, electron manipulation,
mechanics, semiconductor 1976 June p 28–37	spectroscopy, synchrotron radiation, X-ray lithography, X-ray probe, uses of synchrotron radiation 1977 June p 32-41 [365]
electron interferometer, for perfect standards 1953 Aug p 42	probe, uses of synchrotron radiation 1977 June p 32–41 [365] electron theory, molecular beam, resonance absorption, atomic radiation,
electron manipulation, electromagnetic spectrum, electron storage rings,	coherent radiation, gas molecules, nuclear magnetic resonance,
spectroscopy, synchrotron radiation, X-ray lithography, X-ray	
probe, uses of synchrotron radiation 1977 June p 32-41 [365]	electron transfer, ATP synthesis, mitochondria, oxidation membrane,
electron mass, physical constants, measurement, velocity of light, particle	mitochondrion, proposed structure of mitochondrion
charge, least-squares method standards of measurement, Planck's	1964 Jan p 63–74
constant, Rydberg constant 1970 Oct p 62-78 [337]	chlorophyll, photosynthesis, chloroplast, ATP, cytochrome, pigments,
electron mean free path, electrical conductivity, Fermi surface,	role of chlorophyll in photosynthesis, 1965 July p 74–83 [1016]
semiconductor, materials technology, quantum mechanics, charge	anthracene, crystallography, photosynthesis, exciton, plants, organic
carners, electrical properties of materials 1967 Sept p 194-204	crystals, conjugated aromatic hydrocarbons 1967 Jan p. 86-07
electron micrographics, soap 1952 Feb p 58-59	chlorophyll, chloroplast photosynthesis, light absorption
electron microscopy, virology, cell, viruses inside cells	1974 Dec. p. 68–82 [1310]
1953 Dec p 38–41	electron transport, bacterial toxin, plague bacillus, Black Death
muscle contraction, muscle fiber, myosin, actin, muscle fiber structure	respiration mechanism of death by plague toxin
and function 1958 Nov p 66-82 [19] bacteriology, microorganisms, PPLO, virus cytology, smallest free-	1969 Mar n. 92_100
living cells 1962 Mar p 117–126 [1005]	chloroplast, photosynthesis, photochemistry, chlorophyll, mechanism
cell membrane, endoplasmic reticulum, myelin sheath mitochondria,	of photosynthesis 1960 Dec. p. 59.70 (1162)
nuclear membrane, electron microscope study of membranes in cell	electron tube, rectification, radio thermionic tube, diode, Fleming.
1962 Apr p 64–72 [151]	history of science, England, Edison, lamps, Deforest
human physiology, sarcoplasmic reticulum, muscle fiber, sarcoplasmic	electronic calculator, see computer
reticulum, functions deduced from structure	electronic camora, actronomic computer
1965 Mar n 72-80 (1007)	electronic camera, astronomy, image enhancement, image intensifier, telescope, electronic image processing 1956 Mar p. 81-90
actin, muscle contraction myosin, ATP, sliding filament hypothesis	vision, retina, photographic emulsion vidicon, television camera,
1965 Dec p 18-27 (1026)	photochemistry, light, image detection 1968 Sept p 110-117
atom visibility, microscopy, scanning electron microscope	photocinemistry, light, image detection 1968 Sept p 110-117 electronic circuitry, junction diode amplifiers, amplifiers, sound
1971 Apr p 26–35	reproduction transistor noise
DNA transcription gene action visualized, ribosome, mRNA	integrated circuits, microelectronics, technological annual at a second
1973 Mar p 34-42 [1267] stains for cell subjects 1961 Sept. p. 96	'chips', introduction to single-topic issue on microelectronics
1501 Sept p 50	1077 54 (2 (2 (2)
protein structure, purple membrane 1975 Nov. n. 50	creationic components infinistry integrated organic acceptance
electron mirror microscope, forerunner of scanning 1975 Nov p 58	microelectronics silicon 'chips' 1965 Nov. p. 56-70

electronic equipment, automatic manufacture, Project Tinkertoy, mo	dulan
1055 Aug 7	
South waves, communication technology crystal surface was as	nucleochronology, radioactive nuclei, stellar evolution supernovae
Rayleigh waves, signal processing, ultrasonic waves	1974 Jan n 69-77
1972 Oat n. 5	chondrites, planets, solar system chemistry, space exploration stellar
electronic scanner, computer technology, information storage,	0-06 evolution 1074 Mar p 50-65
information retrieval, microrecording, microfiche, library science	element transmutation, atomic theory, Rutherford-Soddy theory, science
1066 Community Science	nistory, radioactivity, radioactive decay transmutation, reception of
electronic switching, telephone switching, electromechanical switching	-242 'newer alchemy' 1966 Aug p 88-94
markers, electronic replaces electromechanical switching	
	positron, mesons, photon, neutrino, particle accelerator, nuclear
Communication natural s communication 1962 July p 132-	-143 binding force, 'Meson Song' 1948 June p 26-39
communication networks, communication satellite, multiplexing,	common and an array of the state of the stat
network theory, radio, communication, telephone systems, televis	iion 1949 Mar n 28-39
	170 Goldshaum tot en en en en en
electronic telephone, telephone, solid-state electronics, integrated circu	IIIS. With 20 particles known a review of the theoretical foundations of
telephone based on integrated circuits 1978 Mar p 58-64 [3	002] physics 1953 Apr p 57-64 [208]
electronic typesetter, letter-projection method 1967 Dec. p	55 neutrino, neutron decay, alpha decay, beta decay, setting trap for
electronic typesetting, printing, photographic typesetting, digital	detection of theoretical particle 1956 Jan p 58-68
computer, mechanical composition, cathode-ray tube, computer	parity, 'weak' force, symmetry, quantum, particle interaction, right and
applications 1969 May p 60	-69 left-handed particles breakdown of parity 1957 Apr p 45-53 [231]
with help of photography 1949 Nov. n	antimatter, symmetry, 'weak' force, parity, particle interaction,
electronics, solid state physics, transistor, vacuum tube, germanium	recognition of 'fourth force' 1959 Mar p 72–84 [247]
diode, triode, dawn of solid-state electronics 1948 Sept p 52	-55 magnetic monopoles, electromagnetic radiation, particle accelerator,
electron tubes, amplifiers, communication technology, rectifiers.	search for elementary particle of magnetism 1963 Dec. p. 122-131
electron optics, cathode-ray tube, communication, power, thermio	muonium, muon, electron, electromagnetism, positronium, atom
emission, state of the technology 1950 Oct p 30-	
transistor, junction transistor, vacuum tube, computer technology.	atoms, electron, neutron, proton, matter, structure of 'ordinary matter'
forecast of a 'revolution in electronics' 1951 Aug D 13-	-17 1967 May p 126–134
electric field, Gunn effect, microwave emission, negative resistance,	energy levels, atom, nucleus, high-energy physics, spectroscopy, 'three
solid state physics, gallium arsenide, solid state microwave	spectroscopies' 1968 May p 15–19
generation 1966 Aug p 22-	
optical maser 1962 Jan p	62 neutron, nuclear forces, nuclear surface, proton
electroorganic chemistry, electrolysis, electrolytic chemical processes	1972 Oct p 100-108
1967 Apr p	50 Jeptons, heavy leptons, tau particle, small light-particle family gains
electrophoresis, protein separation, Schlieren scanning, moving-bounda	ry new member 1978 Mar p 50-57 [398]
electrophoresis 1951 Dec p 45–	
sex determination, spermatozoon motility, gene manipulation, sorting	see also high-energy physics
out Y-bearing sperm by electrophoresis 1958 Nov p 87-	elements, element abundance, cosmic distribution 1950 Oct p 14-17
immunoelectrophoresis, antigens, antibodies, separation of proteins	glass, metals, materials technology, ceramics, polymers, chemical band,
1960 Mar p 130–140 [8	41 composite materials, atom, introduction to single-topic issue on
electric field, electric 'wind', non-uniform electric field, applications of	f materials 1967 Sept p 00-17
non-uniform electric fields 1960 Dec p 106-11	6 living matter, essential elements, metallo-enzymes, fluorine, silicon, tin
evolution, gene pool, mutation, genetic load, population genetics,	vanadum list of elements essential to life lengthened to 24
heterozygosity 1970 Mar p 98-107 [1172	1972 July p 32-00
electroplaques, electric fishes, sodium ion potential, neurophysiology,	isotopes, radioactive decay, atomic nucleus, 'synthetic' elements, evolic
synapse, acetylcholine, animal behavior, nerve impulse,	isotopes of light elements 1978 June p 60-72 [3070]
bioluminescence 1960 Oct p 115–12	1040 No. 9 111
electroplating, with titanium 1954 Dec p 5	
plating refractory metals 1957 Aug p 65	elephant, intelligence, learning, vision, research in elephant learning 1957 Feb p 44-49
electroretinography, vitamin A deficiency, night blindness, opsin,	ly 1 1 1 CC 1 CC 1 absences
rhodopsin, bright-light exposure, retinitis pigmentosa, night	animal husbandry, antelope, giraffe, buffalo, rhinoceros hippopotamus, wildlife husbandry in Africa 1960 Nov p 123-134
blindness in rat, action of vit A on eye 1966 Oct p 78-84 [1053]	hippopotamus, wildlife husbandry in Africa 1960 Nov p 123-134 elephant extinction, Clovis culture, hunting, mammoth-bone deposits
electrostatic belt generator, particle accelerator, Van de Graaf generator,	Folsom points, New World archeology 1966 June p 104-112
charge-changing accelerator, negative ion 1970 Aug p 24-33	Folsom points, New World archeology 1966 June p 104-112 elephantiasis, circadian rhythm, filariasis, parasitism, tropical disease
electrostatics, air pollution, corona discharge, electrocoating, fly ash,	1958 July p 94-101
photocopying, xerography, electrostatic precipitation and seperation 1972 Mar p 46-58	
element 103, 'synthetic' elements, lawrencium, transuranium elements	galaxy spiral galaxies evolution from taxonomy
high-flux isotope reactor, heavy-ion linear accelerator, periodic table	1956 Sept p 100-108
	galactic evolution, spiral galaxies, origin and history from shape
at 105	1963 Jan p 70–84
element 104, synthesized 1969 June p 56 element abundance, cosmology, red shift, galactic recession, 'synthetic element abundance, 'synthetic element abundance, 'synthetic element abundance, cosmology, 'synthetic element abundance, 's	Elsasser-Bullard hypothesis, geomagnetism permanent magnets.
elements, universe expansion 1948 July p 20–25	electromagnetism. Blackett hypothesis, theories on origin of
a distribution 1930 Oct p 17-17	terrestrial magnetism 1950 June p 20-24
total aland hymothesis hingry stars, photophoresis, gravitational	elutriation, rain drop, soil erosion, sheet erosion, micromechanics of soil erosion 1948 Nov p 40-45
	erosion 1948 Nov p 40-45
	embryo-graft experiments, regeneration cell differentiation, cockroach
thermonuclear reaction, stellar evolution, universe, isotopes, 'synthetic'	
	embryonic development, newt, biological form
elements, particle accelerator, experimental astrophysics	1977 July p 66–81 [1363]
elements, particle accelerator, experimental asseption 82–91	1977 July p 66-81 [1363] embryological 'organizer', embryonic development, cell differentiation
elements, particle accelerator, experimental 1956 Sept p 82-91	1977 July p 66-81 [1363] embryological 'organizer', embryonic development, cell differentiation Cartesian diver, fundamental research, How do cells differentiate? 1953 Sept. p. 108-116
elements, particle accelerator, experimental autorior 1956 Sept p 82-91 ecology, energy cycle, biomass, solar energy, food chain, autotrophs, 1958 Apr p 83-92	1977 July p 66-81 [1363] embryological 'organizer', embryonic development, cell differentiation Cartesian diver, fundamental research. How do cells differentiate? 1953 Sept. p 108-116 cell differentiation, embryonic development, blastula, gastrula,
elements, particle accelerator, experimental 1956 Sept p 82-91 ecology, energy cycle, biomass, solar energy, food chain, autotrophs, heterotrophs, the ecosphere element formation, cosmology, universe expansion, Olber's paradox, element formation, cosmology, universe expansion, Olber's paradox.	embryological 'organizer', embryonic development, cell differentiation Cartesian diver, fundamental research. How do cells differentiate? 1953 Sept. p. 108-116 cell differentiation, embryonic development. blastula, gastrula, fertilization, ectoderm, mesoderm, endoderm, science history, review.
elements, particle accelerator, experimental 1956 Sept p 82-91 ecology, energy cycle, biomass, solar energy, food chain, autotrophs,	embryological 'organizer', embryonic development, cell differentiation Cartesian diver, fundamental research. How do cells differentiate? 1953 Sept. p. 108-116 cell differentiation, embryonic development blastula, gastrula, fertilization, ectoderm, mesoderm endoderm science history, review
elements, particle accelerator, experimental autorior 1956 Sept p 82-91 ecology, energy cycle, biomass, solar energy, food chain, autotrophs, 1958 Apr p 83-92	embryological 'organizer', embryonic development, cell differentiation Cartesian diver, fundamental research, How do cells differentiate? 1953 Sept. p. 108-116 cell differentiation, embryonic development. blastula, gastrula, fertilization, ectoderm, mesoderm, endoderm, science history, review.

embry onic cells, muscle tissue, cell differentiation, cell culture, clone,	ACTH, child development, dwarfism, growth hormone, deprivation
origin of muscle in embryonic development 1964 Aug p 61–66	dwarfism, 'bone age', anorexia nervosa 1972 July p 76-82 [1253]
embry onic development, dedifferentiation of tissue cells, regeneration,	emotional development, fear, comparative psychology, learning, influence
cancer 1949 Dec p 22–24	of early environment, experiments with dogs
observed in the chick embryo 1950 Feb p 52–55	1956 Jan p 38–42 [469]
protozoon, cell differentiation, regeneration, protozoon as model for	comparative psychology, parental care, abnormal behavior, maternal deprivation, early experience and emotional development,
embryological study 1953 Mar p 76-82 cell differentiation, embryological 'organizer', Cartesian diver,	experiments with rats 1963 June p 138–146 [478]
fundamental research, How do cells differentiate?	emotional illness, Oedipus complex, psychoanalysis 1949 Jan p 22–27
1953 Sept p 108–116	group psychotherapy, psychiatry 1950 Dec p 42–45 [449]
plutonium, ultra-microchemistry, cytology, chemistry, isolation of	mental health, schizophrenia, epidemiology, family, psychosis, income
plutonium established a new research technology	status 1954 Mar p 38-42 [441]
1954 Feb p 76–81	acetylcholine, hormone, nerve impulse, serotonin, synapse,
nerve regeneration, vision, learning, visual perception, inborn 'hard	neurotransmitters, central nervous system, physiological psychology,
wiring' of nerve circuitry 1956 May p 48-52 [1090]	chemical mediation of nerve impulses 1957 Feb p 86–94
cleft palate, congenital anomalies, fetal injury, teratogenesis, rubella, teratology 1957 Oct p 109–116	'truth' drugs, psychoanalysis, psychoactive drugs, psychiatry, clinical use of psychoactive drugs 1960 Mar p 145-154 [497]
teratology 1957 Oct p 109-116 cell differentiation, blastula, gastrula, fertilization, ectoderm,	schizophrenia, psychoanalysis, psychiatry, psychosis, neurosis, double
mesoderm, endoderm, embryological 'organizer', science history,	bind, taxonomy of emotional illness, family therapy
review of classical embryology 1957 Nov p 79–88 [103]	1962 Aug p 65–74 [468]
salamander, regeneration, frog, nerve fibers, role of nerve fibers in	education, poverty, group behavior, rural poverty, community action,
regeneration 1958 Oct p 79–88	social psychology, study of community regeneration
cell differentiation, feedback, tissue specialization 1958 Dec p 36-41	1965 May p 21–27 [634]
heart embryology, mesoderm, first heartbeat 1959 Mar p 87-96 [56]	behavioral psychology, child psychiatry, autism, schizophrenia
tissue culture, tissue differentiation, dissociated cells, reassembly of dissociated tissue cells 1959 May p 132–144	1967 Mar p 78–86 [505] group therapy, therapeutic community, role-channeling
dissociated tissue cells 1959 May p 132-144 regeneration, nerve circuits, embryology, reflex arc, 'hard-wiring' of	1971 Mar p 34-42 [534]
nervous system 1959 Nov p 68–75 [72]	community mental-health centers, mental health, psychiatric hospital
cell differentiation, tissue specialization, 'lampbrush' chromosome,	population, psychoactive drugs, psychotherapy, psychiatry,
zygote, fertilization, ovum, clone, cytology, how cells specialize	psychoanalysis 1973 Sept p 116–127
1961 Sept p 124–140	community mental-health centers, skid row, drug addiction,
cell aggregation, tissue differentiation, cell 'recognition', cytology, how	psychoactive drugs, 'deinstitutionalization' of the emotionally ill
cells associate 1961 Sept p 142–165	1978 Feb p 46–53 [581] EMP: electromagnetic pulse
oocytogenesis, meiosis, mitosis, mammalian eggs, chromosomal anomalies, ovum, in vitro fertilization 1966 Aug p 72-81 [1047]	EMP effect, arms control, atomic test ban, 'fireball blackout',
cell differentiation, pancreas, mesoderm, endoderm, tissue culture	underground nuclear explosions, strategic weapons
1969 Mar p 36–44 [1136]	1972 Nov p 15–23 [342]
mitosis, ovum, fertilization, meiosis, blastocyst, human embryos in the	emphysema, bronchitis, air pollution, public health, smog environmental
laboratory 1970 Dec p 44–54 [1206]	health, US cities, smog and public health 1961 Oct p 49-57 [612]
calcium ion activator, cell motility, cell shape, microfilaments,	acute respiratory failure, intensive care, tracheostomy, lung, alveolar
microtubules 1971 Oct p 76–82 [1233] brain circuitry, nerve cells, neuronal specificity, visual cortex, Xenopus	collapse, pathogenesis and treatment of acute respiratory failure 1969 Nov p 23–29
laevis 1973 Feb p 26–35 [1265]	employment, armed forces of U.S., arms production 1951 Sept p 89-99
regeneration, biological form, cell differentiation, cellular polarity,	pluralistic economy, public sector, private-enterprise sector,
Hydra, morphogenesis, morphogens 1974 Dec p 44–54 [1309]	productivity, US economy, not-for-profit sector
crystals, calcite, calcium carbonate crystals, crystal structure, sea	1976 Dec p 25-29
urchin embryo 1977 Apr p 82–92	nearly full 1951 Sept p 49 employment by industry, engineering manpower, labor force, disciplinary
regeneration, cell differentiation, cockroach, embryo graft experiments, newt, biological form 1977 July p 66-81 [1363]	distribution 1951 Sept p 65–68
cell motility, wound healing, cell tracks, tubulin, mitotic apparatus, cell	
4000 4 60 50 510001	employment by sector, science manpower, disciplinary distribution, labor
motion made visible to naked eye 1978 Apr p 68-76 [1386]	employment by sector, science manpower, disciplinary distribution, labor force 1951 Sept p 71-76
growth, computer modeling, grid-transformation, the shaping of tissues	force 1951 Sept p 71-76 employment levels, labor force, manpower policy, U S economy, women
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391]	force 1951 Sept p 71–76 employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov. p 43–51 [70]1
growth, computer modeling, grid-transformation, the shaping of tissues in embryos 1978 June p 106–113 [1391] feedback control 1952 Oct p 42	force 1951 Sept p 71-76 employment levels, labor force, manpower policy, U S economy, women in labor force, job creation vs job quality 1977 Nov p 43-51 [701] employment policy, economic development, Japan, investment, debt
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electrodynamics, time-keeping, foundation of maser, laser	1965 Dec p 76-84 [1029] energy transformation, ATP, muscle contraction, fermentation, citric-acid
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1968 Sept p 120–136	1956 Sept p 157–166 battery fuel cell, electric power generation, energy economics direct
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mixtures, metal-vapor lasers 1973 Feb p 88	energy demand, fuel-conversion efficiency, power, prime movers, steam
energy output, bird flight, metabolism, wind tunnel experiments, gull,	turbines, magnetohydrodynamics, gas turbine, internal combustion engine, fuel cell, solar cells, power, nuclear power, comparative
budgengar 1969 May p 70–78 [1141] energy policy of U.S.A, the coal option 1978 Jan p 64	efficiencies of energy transformation pathways in industrial
energy policy of U.S.A, the coal option 1978 Jan p 64 energy resources, solar energy, residential heating, windows, low-	civilization 1971 Sept p 148–160 [668]
potential energy, hot water, Sun can supply most of the 30 percent of	engine efficiency, automobiles, energy conservation, fuel consumption
fuel energy consumed in domestic heating 1951 Feb p 60-65	1975 Jan p 34-44
oil shales, shale rotors, mining, fossil fuel, oil from shales	engineering curriculum, U S recommendations 1956 June p 56
1952 Feb p 15–19	engineering failure, molasses-tank disaster 1972 Mar p 44
coal, natural gas, oil reserves, energy economics, fossil fuel, impending	engineering manpower, labor force, employment by industry, disciplinary distribution 1951 Sept p 65-68
petroleum shortage 1956 Oct p 43-49 economic development, energy technology, industrialization,	shortage of 1951 July p 28
population, fuel consumption, energy requirements and resources for	enrollments up 1952 Mar p 36
economic development 1963 Sept p 110–126	in short supply 1956 May p 54
energy consumption, fission fuels, power, fossil fuel, fusion fuels,	enrollment down 1960 Aug p 72
geothermal energy, solar energy, tidal energy	engineers, scientists, low on happiness scale 1955 Apr p 50
1971 Sept p 60-70 [663]	English horn, musical instruments, vibrating air column, clarinet, oboe,
coal gasification, gas turbine, pollution control, oil gasification 1972 Oct p 26-35	flute, bassoon, saxophone, physics of the wood winds 1960 Oct p 144-154
hydrogen, electrolyzer technology, hydrogen-energy economy, liquified	English Kinsey report, human sexual behavior, cousins 1950 Apr p 32
hydrogen, cryogenic storage, fuel cell 1973 Jan p 13–21	English medieval village, medieval life, Wharram Percy site
coal gasification, gasification processes, Lurgi process, Hygas process,	1976 Oct p 116–128
synthane process, CO ₂ acceptor process, coal technology	English poetry, Copernican revolution, 'Space Rapture'
1974 Mar p 19–25	Eniwetok tests, atomic bomb 1977 June p 120–129 [367] 1949 Oct p 20–21
energy conservation, nuclear reactor, fission reactor, nuclear-waste disposal, atomic-weapon proliferation, Rasmussen report	Eniwetok tests, atomic bomb 1949 Oct p 20-21 enkephalins, brain function drug action, drug addiction, endodorphins,
1976 Jan p 21–31 [348]	internal opiates, opiate receptors brain endocrinology
coal hydrogenation, coal liquefaction, energy economics, oil and gas	1977 Mar p 44-56
from coal 1976 May p 24-29	enriched uranium, nuclear power, fission reactor, heavy-water reactor,
fuel imports, liquid natural gas, technology assessment, risk estimation,	homogeneous reactor, A E C program 1951 Apr p 43-50
tankers, LNG 1977 Apr p 22–29	Enrico Fermi Award, Atoms for Peace Award, 1958 winners
petroleum, oil reserves, oil consumption, OPEC, finite horizon of petroleum energy economy 1978 Mar p 42-49 [930]	enteroviruses, poliomyelitis virus Coxsackie virus, tissue culture, echo
Athabasca tar sands 1948 Nov p 24	viruses, epidemiology, benign and infectious intestinal viruses
petroleum alternatives 1974 Feb p 43	1959 Feb. p. 8897
windfull power 1974 May p 61	entomology, bacteriology, biological pest control, agricultural pest,
nuclear power as principal option 1975 May p 42	insecticide, insect physiology, virology, living insecticides
energy plantations 1976 Mar p 60B energy storage, energy economics, economic geography, pipelines, power	silkworm, juvenile hormone, insect metamorphosis, hormone arrests
transmission, tankers, power, economic geography of energy	development 1958 Feb p 67–74
production, distribution and consumption	photoperiodicity, insect diapause, Lepidoptera, hibernation governed
1971 Sept p 164-175 [669]	by photoperiodicity 1960 Feb p. 108-118
automobile propulsion, electric power generation composite materials materials technology, flywheels 1973 Dec p 17-23	insect venom Chaga's disease, assassin bugs, predator-prey
energy technology, economic development, industrialization, population.	relationship, natural history 1960 June p 72-78 Africa termite, insect behavior, air conditioning airconditioned
fuel consumption, energy resources, energy requirements and	termite nests 1961 July p. 138 146
resources for economic development 1963 Sept. p. 110–126	aerial plankton, animal migration species dispersion insect
energy demand thermal pollution Industrial Revolution biosphere	physiology, agricultural pest, wind-borne dispersal of species
fossil fuel cycle, carbon dioxide, industrial emissions, modification of natural cycles by man 1970 Sept. p. 174-190 [1197]	1963 Dec n 122 129
cooling towers, heat exchange, industrial cooling, microclimate	aquatic insect, insect eggshell respiration, adaptation selective
1071 May = 70-78	homborders besets as
energy transfer, superconductors, electron nairs, organic superconductor	entropy, communication, information theory thermodynamics
proposal for room-temperature superconductor 1965 Feb p 21-27	1949 July p 11–15
	15 15 dry the [1-12

collectors

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endocranial easts, African hominids, brain evolution, Iossil hominid
                                                                                      energy cycle, ecology, biomass, solar energy, food chain, element
       brains, hominid, human brain, pongid brains
                                                                                           abundance, autotrophs, heterotrophs, the ecosphere
                                                    1974 July p. 106-115 [686]
    brain evolution, brain size, cephalization index, intelligence,
                                                                                                                                             1958 Apr. p. 83-92
                                                                                        wind, solar radiation, biosphere, albedo, atmospheric circulation,
       paleoneurology
                                                     1976 Jan. p. 90-101 [568]
                                                                                           climate, ocean circulation, terrestrial radiation, carbon dioxide
  endocrine function, found in arteries
                                                               1951 Sept. p. 52
                                                                                           'window', Earth energy cycle
  endocrine hormones, cell receptors, gene regulation, hormonal action,
                                                                                                                                      1970 Sept. p. 54-63 [1189]
                                                                                        solar radiation, photosynthesis, biosphere, agricultural ecosystem,
       protein synthesis, steroid hormones
                                                     1976 Feb. p. 32-43 [1334]
                                                                                          climax ecosystem, ecosystem, food chain, respiration, biosphere
 endocrine system, physiology, nervous system, respiration, nerve impulse,
                                                                                          energy cycle
       muscle contraction, science, physiology 1900-1950
                                                                                                                                      1970 Sept. p. 64-74 [1190]
                                                                                        celestial energy, cosmological 'hangups', power, radiation energy,
                                                           1950 Sept. p. 71-76
                                                                                          entropy per unit energy, gravitational energy, stellar evolution,
    pituitary gland, ACTH, gonadotrophic hormones, metabolic hormones,
                                                                                          thermonuclear energy
                                                                                                                                      1971 Sept. p. 50-59 [662]
      growth hormone, the master gland
                                                            1950 Oct. p. 18-22
                                                                                        Eskimo, hunting societies, food chain, seal, power, Baffin Island,
    ACTH, hormone, sexual characteristics, growth, thyroid-stimulating
                                                                                          ecosystem
                                                                                                                                    1971 Sept. p. 104-115 [665]
      hormone, follicle-stimulating hormone, prolactin, androgens,
                                                                                       animal husbandry, ecosystem, agricultural system, power, New Guinea,
       estrogens, secondary sexual characteristics, human physiology,
                                                                                          tropical agriculture
                                                                                                                                   1971 Sept. p. 116-132 [666]
      chemical integrators of the body
                                                   1957 Mar. p. 76-88 [1122]
                                                                                       industrial society, U.S. economy, power, ecosystem, environmental
    brain function, cyclic AMP, dopamine, messenger molecules, nervous
                                                                                                                                   1971 Sept. p. 134-144 [667]
                                                                                         protection
      system, neurotransmitters, L-DOPA treatment, Parkinson's disease,
                                                                                       biosphere, photosynthesis, respiration, power, radiation energy, solur
       'second messengers', brain endocrinology
                                                                                         radiation, terrestrial radiation
                                                                                                                                    1971 Sept. p. 88-100 [664]
                                                 1977 Aug. p. 108-119 [1368]
                                                                                      climatic change, coral reefs, fossil reefs, marine ecosystems, reef
 endocrinology, cockroach, woodroach, cockroach as laboratory animal
                                                                                                                                     1972 June p. 54-65 [901]
                                                                                         evolution
                                                          1951 Dec. p. 58-63
                                                                                      nitrogen fertilizer, nutrient cycle, soil structure, food and agriculture,
 endoderm, cell differentiation, embryonic development, blastula, gastrula,
                                                                                                                                          1976 Sept. p. 74-86
                                                                                         food chain
      fertilization, ectoderm, mesoderm, embryological 'organizer', science
                                                                                      forest, ecosystem, partitioning of energy in a New England forest
      history, review of classical embryology
                                                    1957 Nov. p. 79-88 [103]
                                                                                                                                  1978 Mar. p. 92-103 [1384]
    cell differentiation, embryonic development, pancreas, mesoderm,
                                                                                    energy demand, breeder reactor, fission reactor, uranium fission,
      tissue culture
                                                                                                                                          1967 May p. 25-33
                                                   1969 Mar. p. 36-44 [1136]
                                                                                        plutonium, 'third generation' breeder reactors
 endodorphins, brain function, drug action, drug addiction, enkephalins,
                                                                                      fission reactor, electric power, nuclear power, fossil fuel, energy
      internal opiates, opiate receptors, brain endocrinology
                                                                                        economics, history and prospects of nuclear power in U.S.
                                                          1977 Mar. p. 44-56
                                                                                                                                          1968 Feb. p. 21-31
   internal opiates
                                                                                      thermal pollution, Industrial Revolution, biosphere, energy technology,
                                                              1977 Feb. p. 50
 endogamous group, Dunkers, genetic drift, ear lobes, blood typing, 'hitch-
                                                                                        fossil fuel cycle, carbon dioxide, industrial " " ... "
                                                                                                                               1970 Sept. p. 174 175 ...
      hiker's' thumb
                                                   1953 Aug. p. 76-81 [1062]
                                                                                        natural cycles by man
 endoplasmic reticulum, cell nucleus, cytoplasm, cell organelle,
                                                                                     breeder reactor, nuclear power, fast neutron reactor, uranium cycle,
      chromosome, cell physiology, RNA, DNA, cytology, nuclear control
                                                                                        thorium cycle, liquid-metal reactor, fission reactor
                                                                                                                                   1970 Nov. p. 13-21 [339]
                                                        1960 Jan. p. 126-136
      of cell
   cell membrane, electron microscopy, myelin sheath, mitochondria,
                                                                                     energy transformation, fuel-conversion efficiency, power, prime
                                                                                       movers, steam turbines, magnetohydrodynamics, gas turbine,
      nuclear membrane, electron microscope study of membranes in cell
                                                                                       internal combustion engine, fuel cell, solar cells, power, nuclear
                                                    1962 Apr. p. 64-72 [151]
                                                                                       power, comparative efficiencies of energy transformation pathways
   cell membrane, cell secretion, exocytosis, membrane fusion, fluid-
                                                                                                                                1971 Sept. p. 148-160 [668]
      mosaic model of membrane
                                                   1975 Oct. p. 28-37 [1328]
                                                                                       in industrial civilization
                                                                                  energy economics, Middle East oil, petroleum resources, Persian Gulf
endosymbiosis, cell evolution, cell organelle, chloroplast, eukaryotic cells,
                                                                                       fields, economic development, Iran, Iraq, Saudi Arabia
     mitochondria, symbiosis, prokaryotic cells, algae, cilia, flagella,
                                                                                                                                         1948 Sept. p. 9-15
      plastids
                                                  1971 Aug. p. 48~57 [1230]
                                                                                    nuclear power, cost assessment, capital cost, competitive with fossil
endothermy, birds, dinosaurs, ectothermy, metabolism, birds descended
                                                                                                                                        1951 Jan. p. 32-38
     from dinosaurs
                                                   1975 Apr. p. 58-78 [916]
                                                                                      fuels
                                                                                    coal, energy resources, natural gas, oil reserves, fossil fuel, impending
endotoxins, bacterial infection, exotoxins, toxins, bacterial toxin, effects
                                                                                                                                        1956 Oci. p. 43-49
                                                        1964 Mar. p. 36-45
                                                                                      petroleum shortage
     of endotoxins
                                                                                    fission reactor, breeder reactor, nuclear power, atomic power in U.K.
endrin, insecticide, implicated in fish deaths
                                                            1964 May p. 64
                                                                                                                                       1958 Mar. p. 29-35
energy, heat, thermodynamics, quantum mechanics, entropy, equation of
                                                                                   fission reactor, nuclear power, fuel rods, design of reactor fuel elements
     state, black body radiation, temperature, What is heat?
                                                                                                                                       1959 Feb. p. 37-43
                                                       1954 Sept. p. 58-63
                                                                                   battery, fuel cell, electric power generation, energy transformation.
   matter, momentum, high-energy physics, conservation law,
                                                                                                                                       1959 Oct. p. 72-78
     conservation laws in particle physics
                                                        1963 Oct. p. 36-45
                                                                                     direct conversion chemical to electric energy
                                                                                   fission reactor, breeder reactor, nuclear power, thorium cycle, uranium
   power machines, mechanical energy, biological energy, economic
                                                                                                                                       1960 Jan. p. 82-94
     development, power, introduction to a single-topic issue on energy
                                                                                     cycle, breeder reactor development
                                                                                   tar sands, oil shales, petroleum, shale retorts, potential liquid-
                                                 1971 Sept. p. 36-49 [661]
     and power
                                                                                                                                      1966 Feb. p. 21-29
                                                                                     hydrocarbon reserves
                                                           1974 June p. 48
   input to U.S. food system
                                                                                   fission reactor, energy demand, electric power, nuclear power, fossil
energy conservation, nuclear power, fossil fuel, solar energy, synthetic
                                                                                     fuel, history and prospects of nuclear power in U.S
                                                  1974 Jan. p. 20-29 [684]
     fuels, energy policy of U.S.
                                                                                                                                      1968 Feb p. 21-31
  automobiles, engine efficiency, fuel consumption
                                                       1975 Jan. p. 34-44
                                                                                  energy storage, economic geography, pipelines, power transmission,
  energy resources, nuclear reactor, fission reactor, nuclear-waste
                                                                                    tankers, power, economic geography of energy production.
     disposal, atomic-weapon proliferation, Rasmussen report
                                                                                                                             1971 Sept p 164-175 [669]
                                                                                    distribution and consumption
                                                  1976 Jan. p. 21-31 [348]
  consumer-product research, consumer protection, household
                                                                                  decision theory, power production, technology assessment, tort law
                                                                                                                            1971 Sept p 191 200 [671]
                                                                                    economic planning, market process
     appliances, product safety, product technology, N.B.S.
                                                                                  coal hydrogenation, coal liquefaction, energy resources, oil and gas
                                                       1977 Dec. p. 47-53
                                                                                                                                    1976 May p 24-29
                                                                                    from coal
                                                          1977 Apr. p. 57
  in appliances, buildings
                                                                               energy emission, phosphors, absorption line, energy transformation
energy consumption, fossil fuel, petroleum reserves, coal reserves, liquid-
                                                                                                                               1954 Oct p 62 66 [237]
     fuel consumption, shale, tar sands, coal liquefaction, the fuel
                                                                               energy exchange, ocean microstructure, ocean circulation, sea-water
                                                      1949 Dec. p. 32-39
                                                                                   salinity, oceanic stirring, sea-water temperature
     problem
  energy resources, fission fuels, power, fossil fuel, fusion fuels,
                                                                                                                              1973 Feb p 64 77 [905]
     geothermal energy, solar energy, tidal energy
                                                                               energy-information interaction, entropy in communication, power,
                                                1971 Sept. p. 60-70 [663]
                                                                                   information flow, information theory, thermodynamics
energy conversion, solar energy, light absorption, pigments, solar
                                                                                                                           1971 Sept p 179 188 [670]
                                                     1956 June p. 97-106
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disease, cholera, plague, yellow fever 1953 Feb p 22–27 poliomyelitis, gammaglobulin, immunity, blood fractionation, vaccine	equatorial rain forests, agricultural production, tropical climate, laterization, developing countries, lateritic soil 1964 Nov p 96–102 [870]
Hutterites, mental health, psychosis, standard expectance method (440)	equivalent sets, infinity, set theory, cardinal number, Cantor 1952 Nov p 76–84
1953 Dec p 31–37 [440] emotional illness, mental health, schizophrenia, family, psychosis,	ergonomics, psychology, instrument panel, pilot error, designing
income status 1954 Mar p 38–42 [441]	instrument panels for their users 1953 Apr p 74-82 [496]
suicide, psychoanalysis 1954 Nov p 88–96	ergot, mycology, fungi, wheat rust, potato blight, morel, amanita,
vaccine, poliomyelitis virus, antibody persistence 1955 Apr. p 42-44	Penicillium notatum, yeast, molds and men
premature infants, retrolental fibroplasia, oxygen, infant mortality,	1952 Jan p 28-32 [115]
blindness, 'blind babies' 1955 Dec p 40-44	LSD, psychosis, psychoanalysis, experimental psychoses
immunology, virology, influenza virus, public health, structure and	1955 June p 34–39
biochemistry of flu virus 1957 Feb p 37-43	erosion, Eocene epoch, Yellowstone National Park, petrified wood, volcanic sediments, petrified forests of Yellowstone
enteroviruses, poliomyelitis virus, Coxsackie virus, tissue culture, echo viruses, benign and infectious intestinal viruses 1959 Feb p 88–97	1964 Apr p 106–114
Chaga's disease, public health, 'zoonoses', parasitism, trypanosomiasis,	forestry, nitrogen fixation, ecosystem, resource management, runoff,
malaria, filariasis, leishmaniasis, plague, yellow fever, typhus, animal	watershed, deforestation, deforestation experiment
infection and human disease 1960 May p 161–170	1970 Oct p 92–101 [1202]
Anopheles mosquito, tropical medicine, malaria, Plasmodium, W H O	Earth evolution, plate tectonics, solar system 1975 Sept p 82–90
malaria eradication 1962 May p 86-96	dust storms, Mars, terrestrial planets, cratering, tectonic processes,
eye disease, trachoma, virus disease, vaccination, immunization 1964 Jan p 79-86	mountain formation, hydrology, solar system 1975 Sept p 106-117 architecture, sculpture, marble, limestone, atmospheric pollution,
human behavior, bubonic plague, public health, Black Death,	weathering, preservation of stone 1978 June p 126–136 [3012]
population history, long-term effects of plague, Europe 1348-50	erosion rate, US landmass 1964 Oct p 58
1964 Feb p. 114–121 [619]	erothrocyte, sickle cell disease, gene mutation, genetic disease, single
bacteria, flies, maggot, dysentery, virology, disease vector	gene-single aminoacid deletion 1958 Jan p 68–74
1965 July p 92-99	error-correcting codes, computer programming, computer technology,
congenital anomalies, genetic disease, hemophilia, mutation, in Queen	redundancy for error detection 1962 Feb p 96–108
Victoria's descendants 1965 Aug p 88–95	erythrocyte, blood plasma, blood fractionation, leukocyte, platelets, centrifuge, blood transfusion, blood banks 1954 Feb p 54-62
atherosclerosis, cardiovascular disease, human nutrition, arteries, cholesterol, coronary occlusion, diet, lipids, plaque, artery wall	metabolism, oxygen starvation, acclimatization, attitude adaptation
1966 Aug p 48–56	1955 Dec p 58–68
air pollution, rickets, vitamin D, ultraviolet radiation, osteogenesis,	comparative physiology, hematology, structure of red blood cell
calcium metabolism, sunlight 1970 Dec p 76–91 [1207]	1957 Jan p 95–102
gotter, hypothyroidism, iodine deficiency, thyroid, iodized salt	cell membrane, pores 1960 Dec p 146–156
1971 June p 92–101 [1223]	'anomalous' water, 'biological' water, blood, hemoglobin, water,
bacterial toxin, cholera, disease, medical care, sanitation, water supply 1971 Aug p 15-21	membrane permeability, osmosis, van 't Hoff law 1971 Feb p 88–96 [1213]
ecological histoplasmosis 1973 May p 44	chemotherapy, cyanate, genetic disease, anemia, hemoglobin, sickle cell
esophagal cancer 1974 May p 60	disease 1975 Apr p 44-50 [1319]
WHO, 'river blindness' in Africa 1975 Oct p 53	escape response, marine invertebrates, starfish, limpets, scallop, prey-
river blindness in Africa 1975 Oct p 53	predator relationship, snail, chemical signals
see also cancer epidemiology epidemal cells, wound healing, regeneration, leukocyte, fibroblasts,	1972 July p 92–100 [1254] animal behavior, neurophysiology, toad, visual perception, visually
collagen 1969 June p 40–50 [1144]	guided behavior 1974 Mar. p 34–42 [1293]
epidermal ridges, dermatoglyphics, skin, chromosomal anomalies	escape velocity, atmosphere, photosynthesis, volcanoes, water of
1969 Dec p 72-84 [1164]	crystallization, nitrogen, oxygen, origin and evolution of Earth's
epidermis, flagella, contractile proteins, keratin, myosin, 'k m e f' group.	atmosphere 1953 Aug p 82–86 [824]
motility in bacteria 1951 Jan p 20–24	Escher's prints, art, optical illusion, perception of pictures, psychology, visual perception 1974 July p. 90–104 [560]
cancer, ultraviolet radiation, melanocytes, suntanning, skin, vitamin D 1968 July p 38-46	visual perception 1974 July p 90–104 [560] Eskimo, Aleuts, genocide, Aleutian Islands, Aleuts as 'Southern Eskimos'
epilepsy, blood-brain barrier, brain metabolism, neurology,	1958 Nov. p. 112–124
neurophysiology, physiology of the barrier and its reinforcement	New World archeology, Onion Portage site, Bering land bridge, human
1956 Feb p 101-106	migration, Alaska, stone artifacts, gateway to America
deep-sleep treatment 1953 Oct p 58 Epimenides' paradox, antinomy, paradox, mathematical logic, logic,	1968 June p 24-33
barber paradox, undecidable questions, Godel's proof, Grelling's	Amerindian, burial site, New World archeology, 2000 B C, Port au Choix, Newfoundland, skeletons 1970 June p 112–121 [657]
paradox, Zeno's paradox, paradox and foundations of logic	energy cycle, hunting societies, food chain, seal, power, Baffin Island,
1962 Apr p 84-96	ecosystem 1971 Sept p 104–115 16651
epinephrine, ACTH, ATP, glucogenesis, glycolysis, hormone, cell	ESP: extrasensory perception
metabolism, cyclic AMP, activation of cyclic AMP by hormones 1972 Aug p 97-105 [1256]	ESP, statistical significance 1953 Oct p 54
Epistles of St. Paul, computer analysis 1964 Jan p 56	essential elements, elements, living matter, metallo-enzymes, fluorine, silicon, tin, vanadium, list of elements essential to life lengthened to
epitaxial growth, materials technology, solid state physics, crystal defects.	24 1972 July p. 52 60
surface chemistry, precipitation in solids, 'doping', chemical	essential oils, oleoresins steam distillation, vacuum distillation, flavors
properties of materials 1967 Sept p 210-220 epithelium, cell membrane, intercellular communication, salivary gland,	periumes 1953 Aug n 70 74
molecular signals, membrane permeability, junctions in cell	estimation theory, batting averages statistics, Stein's paradox, approach of averages to norm 1977 May p. 119, 126 (262)
membrane 1970 May p. 78–86 [1178]	of averages to norm 1977 May p 119-126 [363] estrin, twins, identical twins, fraternal twins, ovulation, physiology of
epoxy resins, adhesive, molecular attraction, surface tension, elastic	twinning 1951 Ion = 40 51
energy, molecular repulsion, micromechanics of adhesion	estrogers, ACIA, normone, sexual characteristics, growth, thurseld
1962 Apr p 114-126 equation of state, heat, thermodynamics, quantum mechanics entropy,	sumulating normone, follicle-stimulating hormone, prolecting
energy, black body radiation, temperature, What is heat?	androgens secondary sexual characteristics, human physiology, endocrine system, chemical integrators of the body
1954 Sept. p. 58-63	1957 Nor n. 76 88 (1122)
equatorial bulge, artificial satellite, Earth, orbital motion gooid, shape of the Earth 1967 Oct. p. 67-76 18731	actinomyosin, ecdysone, cortisone, insulin, gene activation, RNA
the Earth 1967 Oct p 67–76 [873]	synthesis, aldosterone, growth hormone, ACTH, thyroxin,

heat, thermodynamics, quantum mechanics, equation of state, energy	
black body radiation, temperature, What is heat?	The state of the s
1054 Sant - CO	diagnosis, nemophilia, Down's syndrome, Tay-Sachs disease
friction, perpetual motion machines, thermodynamics	
1068 for = 114 1	genetic disease, milk sugar, lactose tolerance, milk-digestion problem
arrow of time, time reversal, information theory hierarchy of	
Structures, macroscopic information increase 1075 Dec. 7.66	fat metabolism, genetic disease, amniocentesis, Tay-Sachs disease,
entropy in communication, energy-information interaction, now or	The state diseases, To tipid-stotage diseases
information flow, information theory, thermodynamics	enzyme function, electron orbit 1973 Aug p 88-97 1970 Aug p 46
1971 Sept p 170 188 167	
entropy per unit energy, celestial energy, cosmological 'hangune' energy	least-to-delivery and assembly
cycle, power, radiation energy, gravitational energy, stellar evolution	n. enzyme-substrate complex enzymes dialysis cotalysis
incrmonuclear energy 1971 Sept n 50 50 166	2] 1959 Aug p 119-125
enucteation, microsurgery, micromanipulator, cytosurgery	lysozyme, X-ray crystallography protein folding amino-acid sequence
1950 Oct p 48–5	three-dimensional structure and action of lysozyme
environment, biosphere, Earth, evolution, photosynthesis, atmosphere-	1966 Nov p 78-90 [1055]
hydrosphere cycles, introduction to single-topic issue on biosphere	COZVINES, Catalysis direction recognization fermentation lock-and lev
1970 Sept p 44–53 [1188	theory, science history 1948 Dec p 28-39
intelligence, race, whites IQ, heredity, American Negro, heredity,	co-enzymes, citric-acid cycle 1949 Sept p 48-50 [15]
population genetics, science policy, social psychology, twins, racial discrimination	biochemistry, virus, citric-acid cycle, metabolism, co-enzymes sulfa
	2
environmental carcinogens, carcinogenesis, cancer epidemiology, immune response, gene mutation, virus disease, cancer prevention	
1075 Nov. n. 64, 79 (1220	fat metabolism, fatty acids, coenzyme A, ATP 1954 Jan p 32-36 [16]
1975 Nov p 64-78 [1330 environmental health, bronchitis, air pollution, emphysema, public health,	
smog, US cities, smog and public health 1961 Oct p 49-57 [612]	
cooperation of US and USSR 1972 Apr p 55	
environmental legislation, DDT bans 1969 June p 57	tetrapyrrole virtuosity 1958 Aug p 77-81
environmental pollution, ionizing radiation, background radiation,	beer, yeast, brewing, fermentation, hops, chemistry and microbiology of brewing 1959 June p 90-100
nuclear medicine, atomic bomb test, introduction to single-topic	enzyme-substrate complex, dialysis, catalysis 1959 Aug p 119-125
tissue on ionizing radiation 1959 Sept p 74-83	autolysis, lysosomes, phagocytosis, pinocytosis, metamorphosis
atomic bomb test, ionizing radiation, isotopes, fallout, nuclear	cellular digestive organ, 'suicide bag' 1963 May p 64-72 [156]
medicine, circulation of radioisotopes 1959 Sept p 84-93	grape fermentation, wine, yeast, viticulture, climate, chemical
ionizing radiation, fallout, atomic bomb test, radiation damage,	explanation of a good wine, role of climate
mutation, public health, hazards of radiation to society	1964 Aug p 46-56 [190]
1959 Sept p 219-232 [1214]	proteins, peptide bond, zymogen, trypsin, proteolytic enzymes
forest ecosystem, X-ray, gamma radiation, white oak, atomic bomb	hydrolysis structure and function of protein digesting enzymes 1964 Dec p 68-79
test, weeds, ecological effects of high-energy radiation	1964 Dec p 60 17
1963 June p 40-49 [159]	protein synthesis, hemoglobin, myoglobin, control systems feedback cooperative enzymes, allosteric enzymes, control of biochemical
fission reactor, nuclear power, public health, radioactive waste disposal, underground storage 1977 June p 21-31 [364]	reactions 1965 Apr p 36-45 [1008]
fallout, atomic radiation 1956 July p 46	autolysis, lysosomes, phagocytosis, lysis, chromosome breakage
oceanic oil pollution 1962 Nov p 71	lucasama implication in disease processes
recycling plant, garbage processing 1967 Jan p 58	1967 Nov p 62-72 [1085]
PCB's and bird eggs 1969 Feb p 44	ATP, mitochondrion, glycolysis, cell membrane, oxidative
environmental protection, energy cycle, industrial society, US economy,	phosphorulation, cell metabolism, mitochandrial membrane
power, ecosystem 1971 Sept p 134–144 [667]	1968 Feb p 32-39 [1101]
UN conference in 1972 1969 Aug p 48	ceruloplasmin hemocyanin, oxygen transport, copper deficiency,
Washington responds to public concern 1970 Apr p 44	cytochrome oxidase, copper biochemistry, Wilson's disease tyrosinase 1968 May p 102-114
nuclear-plant regulation 1971 Dec p 40	tyrosinase 1968 May p 102-11-11 chemical reaction, chemical kinetics, allosteric enzymes proton
UN conference on the human environment 1972 Aug p 42 Environmental Protection Agency, proposed 1970 Sept p 79	transfer actalysis abanyal aguilibrium relayation methods in
Environmental Protection Agency, proposed 1970 Sept p 79 environmental stimuli, brain development, learning memory, rats,	chemistry 1969 May p 30-41
sensory deprivation 1972 Feb p 22–29 [541]	call membrane, artificial membranes, enzyme action, enzymes as
rat experiments 1971 Sept p 84	industrial catalysts 1971 Mar D 20-33 [1210]
environmental toxins, anemia, brain damage, blood disorders, kidney	for wound healing 1949 Dec p 28
disorder, lead poisoning nerve disorders 1971 Feb p 15–23 [1211]	extra-cellular enzyme production 1961 July p 66 67 specificity and universality of binding sites 1974 Mar p 45
enzyme, alcohol metabolism detoxification, drug inactivation, liver	
function, metabolism of drugs cirrhosis 1975 June p 22-31 [1322]	For as as permant, gravitational constant, science history general
enzyme action, insulin, protein structure, ribonuclease, amino-acid	relativity, Eotvos experiment confirmed 1961 Dec p 84-94
sequence, myoglobin resolution of atomic structure of three molecules 1961 Feb p 81-92 [80]	astrophysics red shift measurement relativity theory gravitation
molecules 1901 res p 81-52 [00] cell membrane, enzymes artificial membranes enzymes as 100 23 113161	theories assessed 1974 Nov P 24-33
catalysts [97] Mar p 20-33 [1210]	Eocene epoch, Yellowstone National Park petrified wood erosion,
lock and her theory, molecular structure protein shape-change,	volcanic sediments petrified forests of Yellowstone 1964 Apr p 106-114
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1954 May a	64-68 Furance Occasion 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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1963 Aug p 38-46 [10	mutation, ostrich calluses, speciation religion orthodoxy,
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control mechanisms of the eye vision, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera 1968 Aug p 88–95 [516] pattern recognition, scan-path recordings, serial-recognition hypothesis, visual perception 1971 June p 34-43 [537] visual perception, bilingualism, dyslexia, grammatical relations, language, reading, perception of words 1972 July p 84-91 [545] brain circuitry, neurophysiology, pons, visual cortex, visual processing visual cells in pons 1976 Nov p 90–98 eye-witness testimony, crime, perception, memory, jury trial 1974 Dec p 23-31 [562] Facial expression, behavior, speech, vocal display, nonverbal communication, facial expression in communication 1965 Oct p 88–94 [627] factor analysis, anxiety, personality 1963 Mar p 96–104 [475] stone tools, tool assemblages, multivariate analysis computer analysis, Paleolithic archeology, Bordes method stone tools as fossils of behavior faience, Egyptian glass, glass, glassmakers, Roman glass, chemical and physical analysis of ancient glass 1963 Nov p 120–130 falling-body velocity, free fall, Galileo Merton rule science history 1973 May p 84-92	arms race, atomic test ban, national security, atomic bor policy, military technology 1964 Oct false bottom, marine biology, plankton, sonar, shrimp, he sea scattering layer, deep sea 'layer of life' 1951 sonar, echo sounding ocean floor, plankton, deep sea se photic zone 1966 mar plankton, Arachnida, natural history, animal behavior, carroides 1966 Mar planking, public opinion, voters' attitudes voting behavior, canalysis, ethnic groups, income social status, 'votes in 1950 emotional illness, mental health schizophrenia, epidemio psychosis, income status 1954 Mar adolescence, alienation, racial discrimination, divorce, por mortality, crime, suicide drug addiction, changes in An family structure 1974 Aug I family planning, birth rate birth control, family size, contract population trends acceptance of contraception 1959 economic development demographic transition, industrial urbanization, population growth economic development phirth control, population growth economic development phirth control, human population India, infant mortality, mexperience in an Indian village 1970 July p 10 abortion, birth control, contraception population control, popicy in U S 1973 July size, urbanization U S census U S population reapport	y p 40-51 [N57] nb test, missile p 27-35 [319] teropod deep Aug p 24-28 attering layer, 2 July p 44-50 Chelifer 95-100 [1039] rrelation the making, Nov p 11-13 logy, p 38-42 [441] verty, infant serican p 53-61 [561] eption U S Apr p 50-55 ization t and the 62-71 [645] irromotion of 29-37 [621] edical care 5-114 [1184] oublic uly p 17-23 orttonment
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F.A.O., human nutrition, population, food production, U N technical agencies, 'the food problem' 1950 Aug p 11-15	cybernetics, automatic control, self-regulation, computer science, automata theory, mechanical, biological, social self-regulation
land reform, agricultural technology, food supply, population growth,	1948 Nov p 14–19
human nutrition, F A O Indicative World Plan	automata theory, artificial sensory organs, mechanical behavior, an
1970 Aug p 54-69 [1186]	imitation of life 1950 May p 42–45
Faraday, electrical induction, science history, life and work of Michael	automata theory, learning, conditioned reflex 1951 Aug p 60–63
Faraday 1953 Oct p 90–98	automatic control, self-regulation, automata theory, information theory, introduction to single-topic issue on automatic control
Faraday rotation, galactic magnetism, starlight polarization, spiral	1952 Sept p 44-47
galaxies, spiral arms, stiffening of spiral arms by Milky Way magnetic field 1965 June p 46–54	control loop, servomechanisms, flyball governor, positive feedback,
magnetic field 1965 June p 46-54 fast neutron reactor, fission reactor, nuclear power, breeder reactor,	negative feedback, ecological system, nervous system, economic
boiling-water reactor, homogeneous reactor, sodium-cooled reactor	system, automatic control, feedback concept 1952 Sept p 48–55
1954 Dec p 33–39	bone, calcium, cartilage, hydroxyapatite crystal, osteoclasts
breeder reactor, nuclear power, uranium cycle, thorium cycle, liquid-	1955 Feb p 84-91
metal reactor, fission reactor, energy demand	computer science, von Neumann machine, automata theory, Turing
1970 Nov p 13–21 [339]	machine, self-reproducing machine, 'artificial living plants'
breeder reactor, nuclear power, fission reactor, Superphenix in France	1956 Oct p 118–126
1977 Mar p 26–35	embryonic development, cell differentiation, tissue specialization
fast neutrons, atomic nucleus, spectroscopy, nuclear probe, neutron	1958 Dec p 36–41
spectroscopy, structure of atomic nucleus 1964 Mar p 79-88	eye movement, visual tracking visual scanning, human eye, control mechanisms of the eye 1964 July p 24-33
fasting, diet, human nutrition, metabolism starvation, kwashiorkor,	mechanisms of the eye 1964 July p 24-33 control theory, mathematics, cybernetics, computer programming,
marasmus, physiology of starvation 1971 Oct p 14–21 [1232]	frequency response, stability, dynamic programming, 'policy'
fat metabolism, fatty acids, coenzyme A, ATP, enzymes 1954 Jan p 32-36 [16]	concept 1964 Sept p 186–200
tissue, hormone, obesity, fat tissue, diet, role of fat metabolism in	manipulators, remote control, robot, automatic control, industrial
human physiology 1959 Dec p 70–76	manipulators 1964 Oct p 88–96
enzyme deficiency, genetic disease, amniocentesis, Tay-Sachs disease,	enzymes, protein synthesis, hemoglobin, myoglobin, control systems,
lipids, lipid-storage diseases, 10 lipid-storage diseases	cooperative enzymes, allosteric enzymes control of biochemical
1973 Aug p 88-97	reactions 1965 Apr p 36-45 [1008]
obese mice 1952 Sept p 74	vortex, edge tone, aerodynamic whistles, hole tone, sound waves,
fat tissue, fat metabolism, tissue, hormone, obesity, diet, role of fat	whistles, flutes, organs and rocket engines 1970 Jan p 40-46
metabolism in human physiology 1959 Dec p 70-76	control systems, water clock, thermostat, windmills, automatic control, flyball governor, origins of feedback control 1970 Oct p 110–118
Fata Morgana, atmospheric optics, mirages, optical illusion, refraction, walking on water 1976 Jan p 102–111	fatty acids, hormone-like substances, drug therapy, nervous system,
walking on water 1976 Jan p 102-111 fathogram, ocean floor, topography, Aleutian Trench, seamounts, sonar,	prostaglandm 1971 Nov p 84–92 [1235]
echo-sounding, the Pacific floor 1952 Apr p 19–33	brain function, carbohydrate, neurotransmitters, serotonin, human
fatigue, motivation, 'reactive inhibition', schizophrenia, experiment in	nutrition, tryptophan 1974 Feb p 84-91 [1291]
objective measurement of motivation 1963 May p 130-140	feedback in biology, 'turbidostatic selector' 1952 Sept p 68
fatigue wear, materials technology, wear, adhesive wear, abrasive wear,	feeding behavior, animal behavior, sharks, attack prevention, sensory
corrosion, surfaces in sliding contact 1962 Feb p 127–136	systems 1962 July p 60–68 [127]
fatty acid synthesis, microsome, acetic acid, coenzyme A, lecithin, lipids, synthesis not breakdown in reverse 1960 Feb p 46-51	basal metabolism, libernation homeothermy, circadian rhythm, circannual rhythm, hypothalamus, squirrels, dormice in libernation
synthesis not breakdown in reverse 1960 Feb p 46-51 fatty acids, fat metabolism, coenzyme A, ATP, enzymes	1968 Mar p 110–118 [513]
1954 Jan p 32–36 [16]	animal behavior, innate behavior, learning, parental care, sea gull
thin-film optical devices, interferometry, fluorescence, wave motion,	chicks 1969 Dec p 98–106 [1165]
light waves, monomolecular films 1970 Mar p 108-119	chimpanzee, food sharing hunting, carnivorous chimpanzees
feedback, hormone-like substances, drug therapy, nervous system,	omnivorous chimpanzees, Gombe National Park, Tanzania
prostaglandin 1971 Nov p 84–92 [1235]	1973 Jan p 32–42 [382]
fatty liver, alcoholism, alcohol metabolism, liver function, malnutrition, 'empty calories', acetaldehyde, cirrhosis 1976 Mar p 25-33 [1336]	mosquito bite, yellow fever, insect behavior, malaria, feeding behavior of mosquitoes 1978 June p. 138-148 [1392]
fault, see plate tectonics, block fault	of mosquitoes 1978 June p 138–148 [1392] feelies', tactile simulation 1974 May p 61
fauna, Antarctica, flora, lichens, blue-green algae, ecology, Antarctica	female-role ideology, sex roles women's aspirations, attitude survey
terrestrial life 1962 Sept p 212–230 [865]	1972 Jan p 34–42
Fayum, primate evolution, hominoid, fossil primates, apes, man-apes,	fences, hickory, axe-handles, smoked ham, hickory nuts, economic
Aegyptopithecus, Oligocene ancestor of hominoids	botany, forest, natural history, shagbark hickory 1948 Sept p 40-43
F.D.A: Food and Drug Administration	Fermat, Descartes, mathematics history, analytic geometry, conic sections, Euler, mathematics 1949 Jan p. 40-45
F.D A., pharmaceutical industry, prostheses, medical care, medical	fermentation, enzymes catalysis digestion, respiration, lock-and-key
economics, drug prescription, drug research, medical laboratory	theory, science history 1948 Dec p 28–39
services 1973 Sept p 161–166	ATP, muscle contraction, citric-acid cycle, energy transformation
tear, anger, adrenalin, noradrenalin 1955 May p 74-81 [428]	1953 Apr. p. 8592
emotional development comparative psychology, learning influence of	origins of life Miller-Urey experiment, high-energy radiation,
early environment, experiments with dogs 1956 Jan p 38-42 [469] anger, different adrenalins 1951 Nov p 40	heterotrophs, photosynthesis, autotrophs 1954 Aug p 44–53 [47]
feather duster worm, Annelida, lugworm, biological clock, circadian	ruminants metabolism, symbiosis, cellulose digestion, anaerobic metabolism, how cows digest grass 1958 Feb. p. 34–38
rhythm, marine worm 1959 June p. 132–142	metabolism, how cows digest grass 1958 Feb p 34–38 beer, enzymes, yeast, brewing, hops, chemistry and microbiology of
feather keratin, keratin, X-ray diffraction, protein structure alpha keratin	orewing 1959 Tune p. 00, 100
1969 Aug p 86–96 [1155]	baking yeast brewing aboliavin synthesis cryptococcal menungute
feathers, as food additive 1975 May p 45 Fechner's law, learning visual perception, psychophysics Skinner box,	cen physiology, yeasts, useful and noxious 1960 Feb p. 126 144
behavioral psychology, conditioned behavior, pigeon perception	to Batha 1958 Jan p 44
1961 July = 112_122 [458]	Fermi dies 1/6 and 2 and 2
Federation of American Societies for Experimental Biology, annual	Fermi surface, crystal structure, metals gross properties explained as
meeting 1056 Tune = 54	quantum enects 1062 Tul 110 100
feedback, insect behavior, social insect, army ant, ants, comparative psychology, reproduction pheromones trophallaxis natural history,	order conductivity, Sciliconductor materials technology
philosophy of science, anthropomorphism 1948 June p 16-23	properties, charge carriers electron mean free path, electrical
1940 Julie p 10-23	properties of materials 1967 Sept p 194–204

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crystal energetics, crystal structure, metallurgy, conduction electrons,	
quantum mechanics, quasi-particle concept, metal properties	
1073 Inn - 00	refus as transplant, histocompatability, immune response, immuno ocicil
refinition, fugit-energy physics, mesons, v-particles hoson, the mutual and	privilege, reproduction, trophoblast, nidation, placenta
01 particles 1057 fan - 33	
ingliferery physics, poson, guage theory 1077 X	and the state of t
fermium, californium, table of elements, einsteinium 'synthetic' element	
transuranium elements, mendelevium, radioactive decay, periodic	i de la
table at 101 1956 Dec p 66-80 [24	anaphylactic shock, mode of action and hazards of most wideh used
ferredoxin, energy-carrying chain in photosynthesis 1962 Oct p	
ferrite cores, computer memory, ferroelectric crystal memory, mercury	
delay line, magnetic tape, magnetic drum 1955 June p 92-10	phase materials, fiber-reinforced composites matrix, eutecucs
ferrites, magnetism, magnetic domains, iron, cobalt 1955 Jan p 68-7	
crystal structure, magnetism, materials technology, microwave	in the British Ministry of Private of
radiation, computer memory, industrial applications of iron oxides	light conduction 1960 Nov p 72-81
1060 Tune - 02 to	carrier-wave modulation, coaxial cable, communication technology
1960 June p 92-10 ferroelectric crystal memory, computer memory, ferrite cores, mercury	The state of the s
delay line, magnetic tape, magnetic drum 1955 June p 92–10	bandwidth, noise 1972 Sept p 98-113
delay line, magnetic tape, magnetic drum 1955 June p 92-10 ferrograph analysis, Beilby layer, friction, lubrication, machine wear,	
metal faugue, particles of wear, wear 1974 May p. 88-9	1973 Nov p 28-35
metal fatigue, particles of wear, wear 1974 May p 88-9 ferromagnetism, electron spin, materials technology, magnetic domains	
hysteresis, magnetic properties of materials 1967 Sept. p. 222–234	light-wave communication, pulse-code modulation, lightwave
noncrystalline alloy 1967 July p 42 Fertile Crescent, agricultural revolution, human evolution, cultural	
anthropology, Neolithic archeology, 8000 B C domestication of	composite materials, two-phase materials 1965 Feb p 28-37
plants and animals 1960 Sent p. 130–148 1605	fiber-reinforced composites, composite materials, materials technology
plants and animals 1960 Sept. p 130-148 [605] fertility, age-sex distribution, US census, human resources, mortality	whiskers, fiber glass, two-phase materials, matrix, eutectics
rates, population of US 1951 Sept p. 28–35	1967 Sept p 160-176
rates, population of US fertility control, see birth control, contraception 1951 Sept p 28-35	
ferfilization, sea urchin egg. parthenogenesis 1950 Dec p 46–49	
parthenogenesis, progesterone, hyaluronidase, zona pellucida	
	coronary occlusion, electrocardiography, nerve conduction heart infarct 1968 July p 19-27
1951 Mar p 44-47 contraception, birth control, reproduction, ovulation, nidation	infarct 1968 July p 19-21 fibrin, collagen, elastin, keratin, myosin, cell, polymers polymers in 1952
1954 Apr p 31–34	cells 1957 Sept. p 204–216 [35]
antibodies, antigen-antibody reaction, fertilizin	blood clotting, hemagglutination, fibrinogen, molecular biology,
1954 June p 70-75 [43]	thrombin, role of thrombin in converting fibringen into fibrin
cell differentiation, embryonic development, blastula, gastrula,	1962 Mar p 60-66
ectoderm, mesoderm, endoderm, embryological 'organizer', science	fibrinogen, blood clotting, hemagglutination, molecular biology,
history, review of classical embryology 1957 Nov p 79-88 [103]	thrombin fibran role of thrombin in converting fibrinogen into
sea urchin, spermatozoon, acrosome reaction, sexual reproduction,	fibrin 1962 Mar p 60-66
moment of fertilization 1959 July p 124-134	fibroblasts aging mitoric cell culture somatic cells, cell, DNA
cell differentiation, tissue specialization, 'lampbrush' chromosome,	replication, experiments in aging 1968 Mar p 32-3/1103
embryonic development, zygote, ovum, clone, cytology, how cells	u ound healing regeneration laul ocute collagen enidermal cells
specialize 1961 Sept p 124-140	1969 June p 40-20 [17-7]
active transport, passive transport, pinocytosis, phagocytosis, cytology.	collagen, elastin, microfibrils 1971 June p 44-52 [1225]
osmosis, cell membrane, functions of cell membranes	fiddler crab, biological clock, circadian rhythm 1954 Apr p 34-37
1961 Sept p 167–180 [96]	field emission, electron beam, cold cathode, current density, X-ray photography 1964 Jan p 108-118
avian reproduction, ring dove, breeding cycle, sexual behavior,	
hormone 1964 Nov p 48-54 [488]	field-emission microscope, microscopy, pictures of atoms 1952 May p 58-62
mitosis, ovum, embryonic development, meiosis, blastocyst, human	
embry os in the laboratory 1970 Dec p 44-54 [1206]	crystal structure, metals pictures of atoms 1957 June p 113-124 field-scanning rate, color television, picture elements, line structure,
sexual reproduction ionic regulatory mechanisms 1977 Nov p 128-138 [1372]	technology assessment, competing color television systems weighed
	1950 Dec p 13-17
human physiology, 60-hour-old embryo 1950 July p 28 fertilization of flowers, flower, pollunators, species specificity	field theory, high-energy physics, Classical physics quantum fields
1951 June p \$2-56	elementary particles, with 20 particles known, a review of the
fertilizers, insecticide, herbicide, agricultural technology, chemical	theoretical foundations of physics 1953 Apr p 37-64 [203]
2000 app. 1952 Aug. p. 15–19	matter, wave-particle duality, energy levels, electromagnetic lorce.
plant growth food production chemical industry, agricultural	nuclear forces, gravitation, fundamental research, quantum jumps
technology increasing world food supply 1903 June p 02-72	corpuscular streams what is matter? 1953 Sept p 52-57 [241]
to a production food production, pollution, imgation biospicie,	Maxwell's equations electromagnetism, life and work of James Clerk Maxwell 1955 June p 5%-71
a semiliared resolution soil erosion, prospere capacity to produce	Maxwell 1955 June p 5 mathematics physical sciences group theory, 'eightfold way'. S-math'
1970 3001 10 100-110 (1100)	theory, mathematics in physics 1964 Sept. p. 128-146
'green revolution'. India, food and agriculture, technology transfer,	particle interaction, high-energy physics, gauge theory 'weak' force
monsoons, irrigation, rice, agronomy, wheat, hybrid crop plants 1976 Sept p 154-163	electromagnetic force, 'strong' force 1974 July p 50-59
1970 Bept p	fighting behavior, cichlid fish, marine iguana, rattlesnake, animal
	behavior, comparative psychology, oryx 1961 Dec. p. 112-122 [410]
fertilizin, fertilization antibodies, antigen antibodi 1954 June p. 70-75 [43]	figure-ground perception, pattern recognition, texture discrimination
the material behavior mother-child interaction.	visual perception perceptual limitations 1975 Apr. p. 34-43 [561]
fetal conditioning, heartbeat, maternar behaviors 1973 May p 24-29 left-side preference in babyholding embryonic development	filariasis, circadian rhythm parasitism, elephantiasis tropical d sease 1958 July p 94 101
	Chaga's disease, public health 'zoonoses', parasitism trypanosomiaus
fetal injury, cleft palate, congenital anomalics 1957 Oct. p 109-116 teratogenesis rubella, teratology	malaria leishmaniasis plague, vellou fever, typl us ep demiolori
fetal lungs, infant, hvaline membrane disease, lung, surfactant 1973 Apr p 74-85	animal infection and human d sease 1900 May p. 161-170
19/3 Apr p 19-03	chemotherapy found 1949 May p 27
fetus, umbilical cord, placenta, anatoms and physiology of the umb lical 1952 July p 70-74	
cord	

ilm boiling, boiling, liquids, heat transfer, nuclear boiling, transition	fission fragments, nuclear fission, heavy nuclei, liqui	
boiling 1954 June p. 64–68	neutron, uranium 235, shell model	1965 Aug. p. 49–5
ilter board, for radioactive dust	fission fuels, energy consumption, energy resources, fusion fuels, geothermal energy, solar energy, ti	
inches, birds, mimicry, parasitism, sexual behavior, widow birds, animal behavior 1974 Oct. p. 92-98		'1 Sept. p. 60–70 [663
behavior 1974 Oct. p. 92–98 ingerprint, see: dermatoglyphics	fission products, rare earths, table of elements, abun	
ire, ecology, forestry, grassland, forest fire, role of fire in climax ecology	products draws attention to rare earths	1951 Nov. p. 26-30
1961 Apr. p. 150–160 [1099]	isotopes, uses in science and technology	1952 June p. 19-2
fire protection, 'flashover', pyrolysis, flammability standards	nuclear fuel cycle, plutonium separation, fission r	
1974 July p. 21–27		1952 July p. 62–6
fire ants, agricultural pest, dieldrin, pest control, insecticide	uranium fission, nuclear fission, 'synthetic' eleme transuranium elements, science history, discove	
1958 Mar. p. 36-41 fire-making, human evolution, fire vegetation, cooking, Neolithic	transuramum elements, science instory, discove	1958 Feb. p. 76–84
revolution, kiln, furnace, heat, introduction to single-topic issue on	natural reactor, nuclear fission, Oklo phenomeno	
heat 1954 Sept. p. 52–57	reactor, uranium deposits	1976 July p. 36-4
fire protection, fire, 'flashover', pyrolysis, flammability standards	food preservation?	1954 Nov. p. 50
1974 July p. 21–27	fission reactor, nuclear power, heavy-water reactor,	
fire vegetation, fire-making, human evolution, cooking, Neolithic	enriched uranium, A.E.C. program zirconium, jet engines, ilmenite	1951 Apr. p. 43-50 1951 June p. 18-21
revolution, kiln, furnace, heat, introduction to single-topic issue on heat 1954 Sept. p. 52-57	nuclear fuel cycle, plutonium separation, fission p	
fireball blackout', arms control, atomic test ban, EMP effect,	power	1952 July p. 62–6
underground nuclear explosions, strategic weapons	neutron beam, monochromator, neutron diffraction	
1972 Nov. p. 15–23 [342]		53 Aug. p. 23-29 [219
firefly, bioluminescence, glow worm, abyssal fish, luciferase, 'cold light'	nuclear power, breeder reactor, boiling-water reac	
1948 May p. 46–49	reactor, sodium-cooled reactor, fast neutron rea	
bioluminescence, insect behavior, insect physiology, luciferin, luciferase, chemotaxis, biochemistry of bioluminescence	nuclear power, 'atoms for peace', thermonuclear r	1954 Dec. p. 33–39
1962 Dec. p. 76–89 [141]	reactor, C.E.R.N., first of a four-part report on	
animal communication, behavioral adaptation, bioluminescence, insect	Conference on the Peaceful Uses of Atomic En	
behavior, synchronous flashing of fireflies 1976 May p. 74–85	1945	1955 Oct. p. 27-33
first aid, artificial respiration 1952 Jan. p. 35	'atoms for peace', nuclear power, breeder reactor,	
chest-thump heart remedy 1971 Feb. p. 47 Heimlich maneuver 1975 Dec. p. 50	breeder reactor, nuclear power, energy economics	1955 Oct. p. 56–68
Heimlich maneuver 1975 Dec. p. 50 fish, swimming, laminar flow, turbulence, purpoises, how fishes and sea-	U.K.	, atomic power in 1958 Mar. p. 29–35
going mammals swim 1957 Aug. p. 48–54 [1113]	energy economics, nuclear power, fuel rods, design	
animal behavior, marine biology, schooling behavior, sensory, systems	elements	1959 Feb. p. 37-43
for parallel orientation 1962 June p. 128–138 [124]	breeder reactor, nuclear power, energy economics	
sea, food chain, plankton, marine ecology, ocean, marine life, life in the	uranium cycle, breeder reactor development	1960 Jan. p. 82-94
ocean 1969 Sept. p. 46-162 [884] bioluminescence, fish-scale crystals, tapetum lucidum, optics under	neutron radiography, thermal neutrons, nondestra neutrons as inspection tool 1962	uctive testing, Nov. p. 107–119 [287]
water, camouflage 1971 Jan Ep. 64–72 [1209]	breeder reactor, energy demand, uranium fission,	plutonium, 'third
Death Valley, desert pupfish, species isolation, endangered species	generation' breeder reactors	1967 May p. 25-33
1971 Nov. p. 104–110 [1236]	energy demand, electric power, nuclear power, for	
bacteria, bioluminescence, flashlight fishes, symbiosis	economics, history and prospects of nuclear po-	
1977 Mar. p. 106–114 fish communication, animal communication, crustacea, whale, porpoises,	calefaction, Connecticut River, thermal pollution,	1968 Feb. p. 21-31
marine biology, animal sounds in the sea 1956 Apr. p. 93–102	nuclear power, fisheries, ecology, fish crisis	, madstrar coomis,
fish migration, salmon, homing behavior, animal navigation, chemotaxis	1970	May p. 42-52 [1177]
1955 Aug. p. 72–75	breeder reactor, nuclear power, fast neutron react	or, uranium cycle,
metabolism, salmon, swimming, laboratory observation of energy production by salmon 1965 Aug. p. 80-85 [1019]	thorium cycle, liquid-metal reactor, energy dem	and O Nov. – 12 21 (220)
fish physiology, evolution, lungfish, air-breathing fishes, Devonian period,	CANDU reactor, nuclear power, natural reactor,	0 Nov. p. 13-21 [339]
conquest of land-breathing organs 1968 Oct. p. 102-111 [1125]	CANDU system	1975 Oct. p. 17-27
fish population, eutrophication, water pollution, fisheries, runoff, Great	energy conservation, energy resources, nuclear rea	ector, nuclear-waste
Lakes, silt, U.S. Great Lakes' aging 1966 Nov. p. 94–104 [1056] fish-scale crystals, bioluminescence, fish, tapetum lucidum, optics under	disposal, atomic-weapon proliferation, Rasmus	sen report
water, camouflage 1971 Jan. p. 64–72 [1209]	nuclear fuel, nuclear power, Purex process, reproc	76 Jan. p. 21–31 [348]
fisheries, aquaculture, proteins, food, tilapia, pond culture	national faci, national power, I arex process, reproc	25511g 1976 Dec. p. 30–41
1963 May p. 143–152	breeder reactor, fast neutron reactor, nuclear pow	er, Superphénix in
eutrophication, water pollution, fish population, runoff, Great Lakes,	France	1977 Mar n 26-35
silt, U.S. Great Lakes' aging 1966 Nov. p. 94–104 [1056] ocean, food chain, food supply, food resources of the ocean	environmental pollution, nuclear power, public he	alth, radioactive
1969 Sept. p. 178–194 [886]	waste disposal, underground storage 197 in Scandinavia	7 June p. 21-31 [364]
calefaction, Connecticut River, fission reactor, thermal pollution,	low-cost 'swimming pool'	1951 Nov. p. 32 1952 July p. 35
industrial cooling, nuclear power, ecology, fish crisis	Fermi et al. patent	1953 Oct. p. 51
1970 May p. 42-52 [1177] food supply, marine farming, sea-water nutrients, upwelling, fishponds	molten U233 cycle	1954 Sept. p. 74
1970 Dec. p. 14-21 [1205]	Germany at work Calder Hall	1955 Oct. p. 44
protein for Haitians 1951 July p. 30	heavy water-liquid sodium reactor	1956 Dec. p. 52
fishing, anchovy crisis, El Niño, upwelling, Peru Current, Peruvian	Zero Power Reactor No. V	1956 Dec. p. 53 1957 Jan. p. 64
anchovy 1973 June p. 22-29 [1273] fishponds, food supply, fisheries, marine farming, sea-water nutrients,	uranium reactor technology	1957 Oct. p. 57
upwelling 1970 Dec. p. 14–21 [1205]	pressurized-water reactor fire safety	1957 Dec. p. 68
five-fold fertilizer yield 1948 Dec. p. 27	experimental boiling water reactor	1958 Feb. p. 46
lission, see: nuclear lission, meiosis, mitosis, fission reactor	boiling-water reactor technology	1958 Mar. p. 51
fission bomb, see: atomic bomb	plutonium fission reactor	1958 May p. 58 1958 Oct. p. 54
	gold-plated reactor vessel withstands corrosion	1959 May p. 80

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gas-cooled design for UK	1965 July p	M. Chate and the second
USSR developments	1965 July p	- The state of the
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seculso breeder reactor	•	anti-wake vortexes, contraits, jet hight,
fission-track duting, cosmic radiation, nuclear tracks, et	ching ionizing	flint tools, microwear analysis, Paleolithic archeology
randam, applications of Charged-particle tracks is	n solidi	1077 Nov. p. 108-126 (200)
ecochronology of the new materials	1969 June p. 30-3	flintknapping, technique in Turkey today 1969 Apr n 51
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10	951 Nov. n 01 0	'floaters', eye, vision, retina, nature and origin of 'floaters'
ine-told symmetry, liquid structure, polyhedral-hole me	Klel, geometrical	1702 Julic D 117-121
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 availon, problem solving, Gestalt psychology, insight, if 	he 'ah i' reaction	floods. Mississippi river meanders alloyal calley delias
1963 And	n 118 125 (476	1951 Apr p 18-23
fixed point theorems, mathematics, topology, surface de contraction	formation,	economic development, irrigation, Mekong river, monsoons hydro-
flagella, contractile proteins, keratin, myosin, epidermis,	6 Jan p 105~110	engineering, rice, Mekong river plan, United Nations
motility in bacteria	, k m e i group, 951 Jan p 20-2-	1963 Apr p 49-59
b icterial-cell wall, lysozyme, homeostasis, bucterial cy	zorom p 20-2. Jodasm	
protoplasts, bacteriophage, dissection of bacteria by	v lysozyme	Carboniferous period, tropical flora, deposition of coal 1948 July p 46-51
1960	June p. 132-142	
cilia, cytology, structure and function 1961 Fel	p 108-116 [79]	terrestrial life 1962 Sept p 212-230 [865]
actinomyosin, cyclosis, cilia, muscle contraction, cytol	ogy, cytoplasmic	flotation, mineral separation, surfactant, hubbles, collector ions, ore
streaming, actin, myosin, underlying unity of cellula	ir motion	beneficiation 1956 Dec p 99-110
ATP, axoneme, cell motility, cilia, microtubules, how c	i p. 184-204 [97]	
paramecium, sperm 1974 Oct	:па move. гр 44–52 [1304]	how solids flow 1959 Dec p 122-138 [268]
bacteria, b icterial motility, 'twiddling', rotation of flag	ella ella	Nower, fertilization of flowers, pollinators, species specificity 1951 June p 52-56
	75 Aug p 36-44	pollen, scanning electron microscope, plant cell, morphology
flagellar action, bacterial motility, cell motility, chemotax	us, E.coli	1968 Apr p 80-90 [1105]
1976 Apr	p 40-47 [1337]	bee, bumblebee energetics, symbiosis 1973 Apr p. 96–102 [1270]
flame chemistry, chemical kinetics, flash tube, ram jet, he		flower pigments, carotenoids, pigment synthesis, flavonoids,
	53 May p 29-35	anthocyanins, biochemistry and genetics of flower pigments 1964 June p 84-92 [186]
heat, oxy-aluminum torch, reaction kinetics, high temp	4 Sept. p 84–95	flowering plant hormones germination photogenodicity, phototropism
flare stars, radio astronomy, radio star, Jodrell Bank radio		1949 May p 40-13
solar flares, definitive evidence of radiowaves from st		plant harmones, photoperoducity, harticulture, control of flowering
	4 Aug p 13-19	1952 May P 49-50 [11-5]
	2 Dec p 70-76	photoperiodicity, plant circulation, pigment, hormone,
flash photolysis, light-matter interaction, photochemistry, light, photolysis, triplet state, photoreduction, photoc		photoperiodicity in regulation of plant physiology 1958 Apr p 108-117 [112]
	Sept p 158–170	plant grouth the technome photoperiodicity germination pigments,
flash tube, flame chemistry, chemical kinetics, ram jet, hea		nigment photogeognius anzume in plants 1900 DCC 9
luminosity, spectroscopy 195	3 May p 29-35	flowmeter, Doppler effect
flashlight fishes, bacteria, bioluminescence, fish, symbiosis		flu, see influenza
	Mar p 106-114	fluid dynamics, automatic control, continuous processing, petroleum refinery, control panel, automatic chemical plant
'flashover', fire, fire protection, pyrolysis, flammability star	4 July p 21–27	1952 Sept p 82-96
flavonoids, carotenoids, flower pigments, pigment synthesis	s,	perodynamics air pollution, microclimate micrometeorology,
anthocyanins, biochemistry and genetics of flower pig	ments	troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62-76
1964 June	p 84-92 [186]	the ground 1964 Oct p de-18 amplifiers, switching, Coanda effect, logic gates 1964 Dec p 80-88
flavoring, food additives, food coloring, food preservatives, agents, safety of additives 1972	Mar p 15-21	liquid supercooling nucleation cryogenics crystal growth, behavior of
flavors, essential oils, oleoresins, steam distillation, vacuum	distillation,	supercooled fluids 1965 Jan P 36 19
nerfumes 1953	Aug p 70-74	computer applications, computer modeling, scaling, wind tunnel,
flea jump, ectoparasites, insect cuticle, insect flight, flea resi	lin as	vortex, computer graphics 1965 Mar p 104-110 aerospace technology, Coanda effect, aerodynamics, propulsion,
elastomer 1973 Nov p	92–100 [1284]	nozzles, burners, nature and applications of Coanda effect
fleas, parasitism, host-parasite relationship, hormone, rabbi adaptation, the rabbit flea and rabbit hormones	iis, csiius,	1966 June p 84-92
1965 Dec p	44–53 [1027]	pipelines, oil, gas, slurries, history and technology of pipelines
Fleming, rectification, radio, thermionic tube, diode, electro	n tube ,	1967 Jan p 62-72 fluid impact, meteorites, cratering, projectile, impact crater, effect of high-
history of science, England, Edison, lamps, Defotest		speed impact 1960 Oct p 128–140
1909 1918	ar p 104–112 oni diode.	fluid inclusions, minerals, geology, Earth history, ancient fluids in crystals
Fleming valve, radio, triode, De Forest, vacuum tube, Marco rectification, De Forest's 1906 contributions 1965 M		1962 Oct p 38-47 [834]
rectification, De Poiest & 1900 confidence, topology,	delight and	fluidization, petroleum cracking, particle bed, turbulence, gas stream, food processing 1968 July p 94-104
depth of mathematics	c p 162–166	food processing 1968 July p 94–104 fluidized sand, quicksand, alkali bog 1953 June p 97–102
flexigation, mathematics, hexaflexagons, flexagon, topology,	delight and c p 162–166	fluorescence, thin-film optical devices, interferometry, wave motion, light
depth of mathematics	ırv	1 - 10- films, fatty acids 1970 Mar p 108-119
Flexner report, medical education, medical specialties, prima physicians, foreign medical graduates, medical research, 1973 Sep	medical care	high technology disease occupational health, phosphorus, chelation,
physicians, foreign medical graduates, 11973 Sep	t p 138–148	fluoridation, caries, dentistry, bacteriology, new theory of tooth decay
flies, bacteria, epidemiology, maggot, dysentery, virology, dis	sease vector July p 92–99	1948 Oct p 20–23
1903.	my p >2	teeth, enamel, dentin, metabolism 1953 June p 38-42

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public opinion, anti-scientific attitudes, vot	ing behavior	energy cycle, nitrogen fertilizer, nutnent cycle, soil structure, food chain 1976 Sept p 74-86
	1955 Feb p 35-39 [453] 1952 Oct p 38	agricultural history, animal domestication, archeology, plant
cavities down 47 per cent	1961 Jan p 79	domestication 1976 Sept. p 88–97
fluoridation politics USA fluoride, calcium held in bone and teeth	1967 Jan p 58	agricultural economics, agricultural system, cropping systems
fluorine, fluorocarbons, plastics, stable and pi		1976 Sept p 98–105
illuitile, fillorocarbons, plastics, stable and pr	1949 Nov p 44-47	agricultural economics, food processing, US agriculture, 'agribusiness'
elements, living matter, essential elements,	metallo-enzymes, silicon,	1976 Sept p 106-123
tin, vanadium, list of elements essential t	o life lengthened to 24	'green revolution', agronomy, maize, potatoes, Mexican agriculture
, ·	1972 July p 52-60	1976 Sept p 128–150
fluorine poisoning. Java man bone disease	1970 Apr p 48	'green revolution', India, technology transfer, monsoons, irrigation,
fluorocarbons, plastics, fluorine, stable and pr	romising compounds	fertilizers, rice, agronomy, wheat, hybrid crop plants
	1949 Nov p 44–47	1976 Sept p 154-163 agricultural resources, gene manipulation, irrigation, photosynthesis
in production	1951 Dec p 38 1956 Oct p 68	1976 Sept p 164–178
fortified by nitrogen flute, musical instruments, vibrating air colum		agronomy, crop yields, plant breeding, rice, wheat, maize, plant
English horn, saxophone, physics of the	wood winds	genetics 1976 Sept p 180–194
English horn, sunophone, p-5	1960 Oct p 144-154	developing countries, 'green revolution', technology transfer, economic
flux compression, high-pressure technology, t	magnetism, ultrastrong	development 1976 Sept p 196-205
magnetic fields, explosive compression,	ımplosion	world food production 1976 Sept p 66
_	1965 July p 64–73	Food and Agriculture Organization, see FAO
fluxtrap, superconductivity, low-temperature	physics, critical field	Food and Drug Administration, see F D A food chain, aleae, phytoplankton, kelp, algin, agar 1952 Dec p 15-17
strength, superconductive motor, superc	onductive bearing,	food chain, algae, phytoplankton, kelp, algin, agar 1952 Dec p 15-17 foodchain, human population ecology, population density, 'the human
superconductive amplifier, applications	1960 Mar p 74–82	crop' 1956 Apr p 105–112
fly ash, air pollution, catalysis, combustibility		blue whale, sonar, krill, whaling, natural history of the largest animal
fine particles	1950 Dec p 50–53	1956 Dec p 46-50
air pollution, corona discharge, electrocoa	ting, electrostatics,	plankton, krill, whale, Antarctic convergence, Euphausia superba
photocopying xerography, electrostatic	precipitation and seperation	1958 Jan p 84–89 [853]
	1972 Mar p 46-58	ecology, energy cycle, biomass, solar energy, element abundance,
flyball governor, feedback, control loop, serv	omechanisms, positive	autotrophs, heterotrophs, the ecosphere 1958 Apr p 83–92
feedback, negative feedback, ecological	system, nervous system,	Antarctica, oceanography, marine biology, krill, blue whale, ecology, Antarctic convergence, biological province of Antarctic convergence
economic system, automatic control, fee	1952 Sept p 48-55	1962 Sept p 186–210
control systems, feedback, water clock, the		DDT residues, insecticide, fallout, ecological cycles, ecological
automatic control, origins of feedback	control 1970 Oct p 110-118	redistribution of pollutants 1967 Mar p 24-31 [1066]
'flying spot' microscope, microscopy, ultravi	olet radiation, ultra-	predation, plant toxins, milkweed, blue jay, predator-prey relationship,
microscopy of living cells	1958 May p 38-43	mimicry, ecology, chemical defense against predation
flywheels, automobile propulsion, electric p		1969 Feb p 22–29 [1133]
storage, composite materials, materials	technology	sea, plankton, marine ecology, ocean, fish, marine life, life in the ocean
fog, cloud seeding, water cycle, air pollution	1973 Dec p 17-23	1969 Sept p 146-162 [884] ocean, fisheries, food supply, food resources of the ocean
inversion layer, smog	1968 Dec p 74-82 [876]	1969 Sept p 178–194 [886]
folic acid, metabolite antagonists, imitative		calcium metabolism, eggshell thinning, pollution, chorinated
aminobenzoic acid	1951 Apr p 60–63	hydrocarbons, DDT, dieldrin, avian reproduction, insecticide,
folklore, opossum, marsupial, natural histor	ry 1953 June p 88-94	ecological effect of pesticides 1970 Apr p 72–78 [1174]
follicle-stimulating hormone, ACTH, hormo		solar radiation, photosynthesis, biosphere, agricultural ecosystem,
growth, thyroid-stimulating hormone, estrogens, secondary sexual characteristics.		climax ecosystem, energy cycle, ecosystem, respiration, biosphere energy cycle 1970 Sept p 64-74 [1190]
endocrine system, chemical integrators		energy cycle, Eskimo, hunting societies, seal, power, Baffin Island,
	1957 Mar p 76-88 [1122]	ecosystem 1971 Sept p 104-115 [665]
'following bow' experiment, musical instrum	nents, string instruments,	forest communities, lichens, ecology, algae, nitrogen cycle, treetop
Raman waves, 'wolf' note, physics of b		ecosystems 1973 June p 74–80 [1274]
Folgon was New W. 11 . shades as as	1974 Jan p 87–95	biological wax, copepod lipids, coral reef wax, marine wax, metabolic
Folsom man, New World archeology, stone	1951 Feb p 15–19	fuel 1975 Mar p 76-86 [1318] energy cycle, nitrogen fertilizer, nutrient cycle, soil structure, food and
nb found	1953 Apr p 52	agriculture 1976 Sept p 74–86
antedated	1954 Sept p 76	food coloring, flavoring, food additives, food preservatives, texture agents,
Folsom points, Clovis culture, hunting, mai		safety of additives 1972 Mar p. 15-21
World archeology, elephant extinction		food gathering, hunting, herding, tribal cultures, agricultural society.
food, marine biology, human nutrition foo		aboriginal culture, India, 'living prehistory' in India
snail, Helix pomatia, natural history	1949 Oct p 16-19 1957 Aug p 113-118	1967 Feb p 104-114 food plants, botanical collections, herbanum resources, pharmacology
fisheries, aquaculture, proteins, tilapia, p	oond culture	1977 May p 96–104 [1359]
	1963 May p 143~152	food poisoning, leftover Hollandaise 1951 Apr p 37
food additives, flavoring, food coloring, foo		1000 preservation, hypobaric storage 1976 June n. 54
safety of additives agene, flour bleach banned	1972 Mar p 15–21	1000 preservatives, flavoring, food additives, food coloring, texture
carcinogenic additives	1949 Jan p 28 1956 Oct p 68	agents, safety of additives 1972 Mar p 15-21
Delaney clause in USA legislation	1960 May p. 89	food processing, fluidization, petroleum cracking, particle bed, turbulence, gas stream 1968 July p. 24-104
food and agriculture, economic developme	ent, 'green revolution', hunger	agricultural economics food and agriculture, US agriculture,
population, introduction to single-top	pic issue on food and	agribusiness' 1076 Cent p. 106, 122
agriculture developing countries poverty, hunger, r	1976 Sept p 30–39	rood production, numan nutrition, population. UN technical agencies
	1976 Sept p 40_49	1950 Aug p 11–15
amino-acid deficiencies dietary require	ments, human nutrition.	argae, Cinorcia 1052 O-4 = 21 26
metabolism	1976 Sept p 50-64	birth control population growth, Malthusian doctrine, developing countries Julian Huxley on world population growth
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		1956 Mar p 64-76 [616]

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economic development, agricultural technology, technology transfer,	
hum in nutrition, nutrition il self-sufficiency in economic	forest fire, ecology, fire, forestry, grassland, role of fire in climax ecology
Gevelopment 1963 Sent in 77 skilling	1961 Apr n 150-160/1/0001
economic development, industrialization, population control	The state of the s
agricultural production, technology transfer, economic planning	resource prospecting, economic planning, mineral resources, electric
India, economic development by democratic planning	power, the Amazon frontier 1948 May p 11-14
1963 Sept. p. 189-20	forest products, cellulose, rayon, crystal structure, lignin, polymers, paper,
plant growth, fertilizers, chemical industry, agricultural technology	1 mocs, everytew of mitural polymer 1937 Sept b 136-168
increasing world food supply 1965 June n 62-7	wextd pulp, paper, cellulose, lignin, rayon, waste recycling, kraft process 1974 Apr. p. 52-62
proteins, petroleum, petroleum fermentation 1965 Oct p. 13-1	7 forest succession, ecology, trees, leaf distribution
agricultural technology, poultry production, animal husbandry,	1075 Max n 90_0x [137]]
Chicken, eggs, U.S. chicken factories 1966 July n. 56-6	forestry, spruce, climax ecosystem, balsam, birch, climax forest of
plant hybrids, wheat, hybrid wheat, agronomy 1969 May p 21-2	9 Northeast U.S 1948 Nov. p. 20-23
human population fertilizers, pollution, irrigation, biosphere,	oak blight, fungi, threat to US oak population 1957 May p 112-122
agricultural revolution, soil crosion, biosphere capacity to produce	ecology, fire, grassland, forest fire, role of fire in climax ecology
food sharing, chimpanzee, hunting, carnivorous chimpanzees, omnisorous	
chimpanzees, feeding behavior, Gombe National Park, Tanzania	
1973 Jan p 32-42 [382	U S Western states 1970 Feb p 88–96 [1169]
food supply, kwashiorkor, malnutrition, diet, human nutrition	nitrogen fixation, ecosystem, resource management, runoff, étosion, watershed, deforestation, deforestation experiment
1954 Dec p 46-50	1970 Oct p 92-101 [1202]
deer, hunting, population control 1955 Nov. p. 101-109	resource management, gene manipulation, grafting techniques.
mouse, population control, animal migration 1955 Dec. p. 92-100	Southern pine, tree farming, seed-orchard concept
mainutrition, human population, hunger, human nutrition, Incaparina,	1971 Nov p 94-103
eland, capybara, manatee, mussels, developing countries,	chemotherapy for blister rust 1961 Jan p 86
unorthodox food sources 1967 Feb p 27-35 [1068]	forgetting, learning, memory, proactive and retroactive interference
ocean, food chain, fisheries, food resources of the ocean	1964 Mar p 91-99 [482]
1969 Sept. p. 178–194 [886]	
land reform, agricultural technology, population growth, FAO, human nutrition, FAO Indicative World Plan	theory 1967 Oct p 117-124 [209] forging, crystal structure, dislocations, metal forming, strain hardening
1970 Aug p 54-69 [1186]	creep in metals 1975 Apr p 116-125
fisheries, marine farming, sea-water nutrients, upwelling fishponds	form. Thompson, growth, science history, life and work of D'Arc)
1970 Dec p 14-21 [1205]	Thompson 1952 Aug p 60-60
human nutrition, population control, world food bank, human	form perception, vision, color perception, role of experience in visual
population, agricultural production 1974 Sept. p. 160-170	perception 1949 Aug p 52-55
food supply for U.S., a Malthusian forecast 1952 Aug p 32	visual perception, learning, perception, innate or learned form perception 1961 May p 66-72 [459]
foodchain, eelgrass, marine ecology, ecology, fungal infection, account of an ecological catastrophe 1951 Jan p 52-55	discoverted figures, retinal operation, visual perception
food chain, human population, ecology, population density, 'the	1974 Jan p 78–83 [33/1
human crop' 1956 Apr p 105-112	formalism infinitesimals mathematical logic Platonism real-number
foodsharing, hominid, Olduvai Gorge, toolmakers, human evolution,	line 1971 Aug p 32-77
evolution of behavior, evidence for protohuman behavior in two-	formy Imethionine, amino acids, protein synthesis, ribosome, mRNA, tRNA, initiation of protein synthesis 1968 Jan p 36-42 [1092]
million-year-old sites 1978 Apr p 90-108 [706]	tRNA, initiation of protein synthesis 1968 Jan p 36-42 [1072] fornix, electrostimulation of formx 1956 June p 35
footracing, sports, human physiology, athletics, psychology, metabolism, running records, Aesop principle 1976 June p 109-119	Fort Monmouth, loyalty and security, McCarthy, US Army, Scientists'
forage crops, agricultural economics, grasses, agronomy, hay, legumes,	Committee on Lovalty and Security report on Nighal COIDS
livestock feed, ruminants, silage, Rhizobium bacteria	Engineering Laboratory 1954 June p 27-31
1976 Feb p 60-75	fortification illusions, migraine headaches, neurophysiology, optical illusion 1971 May p 88-96 [536]
foraminifera, oxygen isotopes, temperature measurement, abyssal	illusion 1971 May p 80-70 [250]
sediments, paleontology, glaciation, climatic change, measurement	fossil, coal, flora, Mississippian period, Pennsylvanian period, Carboniferous period, tropical flora, deposition of coal
of ancient temperatures 1958 Feb p 54-63 micropaleontology, ocean floor, climate history recorded in ocean	1948 July p 46-51
sediments 1962 July p 96–106 [856]	aming acids hone mollick shells nalegatology nalegatochemistry
help date start of Pleistocene 1963 Mar p 76	1956 July p 83–92 [104]
force-free windings, electromagnetism, magnetism, magnetic field, million	Neopilina galatheae 1957 Sept p 114
gauss field 1958 Feb p 28-33	fossil cells, bacteria, blue-green algae, evolution, Gunflint cherts, origins of life, Precambrian rocks, prokaryotic cells, oldest fossils
foreign aid, technology transfer, developing countries, technical	of me, Freeding talk rocks, prokaryone cens, oldest rossis 1971 May p 30-42 [395]
assistance, human population 1974 Sept p 172-182 foreign medical graduates, Flexner report, medical education, medical	forcil croter Chubb crater metapritic impact cratering astroblemes
angulare primary physicians medical research, medical care	1951 May p 64-07
19/3 Sept p 130-140	meteorite craters, cratering, fossil craters in Canadian Shield 1958 July p 32-39
forensic chemistry, police laboratory, crime detection	fossil fauna, Antarctica, fossil flora, peology, paleontology, Glossoptens,
1933 Feb p 50	coal, continental drift evidence 1962 Sept. p. 168-184 [803]
1962 Aug p 56	fossil fish, coelocanth, evolution, land animals 1955 Dec. p. 34–39 [831]
Napoleon Bonaparte autopsy	first coelocanth 1953 Feb p 36 six coelocanths 1954 Nov p 56
forensic psychiatry, loyalty and security, technique 1950 Mar p 29	six coelocanths 1954 Nov p 30 90 lb coelocanth 1955 July p 54
forest, hickory, fences, axe-handles, smoked ham, hickory nuts, economic 1948 Sept p 40-43	fossil flora. Antarctica, fossil fauna, geology, paleontology, Glossopteris,
forest, hickory, fences, axe-namics, shocked had botany, natural history, shagbark hickory 1948 Sept p 40-43 botany, natural history, shagbark hickory 1948 Sept p 40-43	coal, continental drift evidence 1962 Sept p 168-184 [863]
energy cycle, ecosystem, partitioning of chergy mar p 92-103 [1384]	fossil algae and fungae two billion years old fossil fuels, fossil fuels, Athabaska tar sands 1949 May p 52-55
tood chain nitrogen cycle,	fossil fuel, fossil fuels, Athabaska tar sands 1949 May p 52-55 petroleum reserves, coal reserves, energy consumption, liquid-fuel
forest communities, hehens, ecology, argae, food in 1973 June p 74–80 [1274] treetop ecosystems	consumption, shale, tar sands, coal liquefaction, the fuel problem
forest ecosystem, X-ray, gamma radiation, with other of high-energy	1949 Dec p 32-39
forest ecosystem, X-ray, gamma radiation, white effects of high-energy weeds, environmental pollution, ecological effects of high-energy 1963 June p 40-49 [159]	coal, underground gasification of coal 1950 June p 52-55

oil shales, shale rotors, mining, energy resources, oil from shales	four-color-map problem, topology, inner-tube eversion, Möbius band,
1952 Feb p 15–19	Klein bottle, trefoil knot, Koenigsberg bridges, three-cottages problem 1950 Jan p 18-24
coal, chemical raw material, coking, 'water gas' process, hydrogenation 1955 July p 58-67	problem 1950 Jan p 18-24 mathematical proof, foundations of mathematics, proof by computer
coal, energy resources, natural gas, oil reserves, energy economics,	1977 Oct p 108–121 [387]
impending petroleum shortage 1956 Oct p 43-49	proof by computer 1976 Oct p 57 Fourier analysis, electroencephalography, brain waves, alpha rhythms,
climate, carbon dioxide 'window', meteorology, air pollution, threat of 'greenhouse effect' 1959 July p 41-47 [823]	medical diagnosis, toposcope display, automata theory
fission reactor, energy demand, electric power, nuclear power, energy	1954 June p 54-63
economics, history and prospects of nuclear power in US	Bragg's law, X-ray crystallography, atomic structure, crystal structure,
1968 Feb p 21–31	X-ray diffraction 1968 July p 58–70 [325] spectroscopy, Fraunhofer lines, prism, light, diffraction grating, Girard
energy consumption, energy resources, fission fuels, power, fusion fuels, geothermal energy, solar energy, tidal energy	grid, interferometry 1968 Sept p 72–82
1971 Sept p 60–70 [663]	fovea, vision, eye movement, saccades, visual attention, human eye, visual
energy conservation, nuclear power, solar energy, synthetic fuels,	fixation, experiments with eye-marker camera
energy policy of U S 1974 Jan p 20–29 [684]	1968 Aug p 88–95 [516]
coal technology, technology history, Industrial Revolution, 16th c energy crisis, wood-fuel shortage 1977 Nov p 140–151 [391]	color blindness, cone cells, genetic disease, retinal image-processing visual pigments 1975 Mar p 64-74 [1317]
energy crisis, wood-fuel shortage 1977 Nov p 140-151 [391] coal, underground gasification of coal 1948 Aug p 23	fowl, animal behavior, incubator birds, eggs, chicken, ornithology,
in finite supply 1949 Apr p 26	hatching eggs in hot places 1959 Aug p 52-58
fossil fuel combustion, calcium carbonate, carbon cycle, sedimentary rock,	foxglove, digitalis, heart physiology, dropsy, digitoxin, cardiac
photosynthesis, biosphere, atmosphere, carbon dioxide	insufficiency, history of digitalis 1965 June p 110–119 fractionation, chromatography, paper chromatography, amino-acid
1970 Sept p 125–132 [1193] fossil fuel cycle, energy demand, thermal pollution, Industrial Revolution,	separation 1951 Mar p 35–41
biosphere, energy technology, carbon dioxide, industrial emissions,	ultracentrifuge, molecular weight, sedimentation, oil drive, air drive
modification of natural cycles by man 1970 Sept p 174-190 [1197]	magnetic suspension, 900,000 g, 60 million r p m
fossil fuels, fossil fuel, Athabaska tar sands 1949 May p 52–55	1951 June p 42–51 fracture zones, ocean floor, Pacific Ocean, Mendocino escarpment,
fossil hominid brains, African hominids, brain evolution, hominid, human brain, pongid brains, endocranial casts 1974 July p 106–115 [686]	seamounts, Earth mantle convection 1955 July p 36–41
fossil men, human evolution, Homo erectus, Java man, Peking man,	fragment assembly, RNA, nucleic acid, nucleotide sequence, alanine,
Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630]	tRNA, enzyme cleavage, first nucleotide sequence
fossil primates, anthropoid, primate evolution, hominoid, early relatives of man 1964 July p 50-62 [622]	1966 Feb p 30–39 [1033] frames of reference, gravity, inertia, Galilean relativity, Einstein,
primate evolution, hominoid, apes, man-apes, Fayum,	philosophy of science, relativity, identity of inertia and gravity
Aegyptopithecus, Oligocene ancestor of hominoids	1957 Feb p 99–109
1967 Dec p 28–35 [636]	frankincense, Arabia irrigation, trade, Near East, myrrh, Biblical
apes, human evolution, population genetics, genetic variation 1972 Jan p 94-103 [676]	archeology, cultures of southern Arabia 1969 Dec p 36-46 [653] Franklin, science history, sentry-box experiment, electrical nature of
fossil reactor, in Gabon 1975 June p 41	lightning, 'electrical fluid', Benjamin Franklin, life and work
fossil record, coelenterata, precambrian animals, life 500 million years	1948 Aug p 36-43
before present 1961 Mar p 72-78 [837] species extinction, natural selection, glaciation, 'catastrophism', crises	Frasch process, sulfur, sulfuric acid, agricultural technology, sulfur demand-and-supply production 1970 May p 62-72
in the history of life 1963 Feb p 76-92 [867]	fraternal twins, twins, identical twins, ovulation, estrin, physiology of
evolution, Infra-Cambrian Ice Age, glaciation, continental drift,	twinning 1951 Jan p 48-51
paleomagnetism 1964 Aug p 28–36 organic molecules, sedimentary rock, gas chromatography, chlorophyll,	Fraunhofer lines, spectroscopy, prism, light, Fourier analysis, diffraction grating, Girard grid, interferometry 1968 Sept p 72–82
hydrocarbons, 'chemical fossils' 1967 Jan p 32-43 [308]	free-electron density, light velocity, radiowave, phase velocity, plasma.
locomotion, walking, primates, human evolution, bipedal walking,	'things that go faster than light' 1960 July p 142–152
muscle, bone, origin of human walking 1967 Apr p 56-66 [1070] species dispersion, continental drift, evolution, plate tectonics	free-electron laser, tunable laser 1977 June p 62 free fall, falling-body velocity, Galileo, Merton rule, science history
1972 Nov p 56–66 [903]	1973 May p 84–92
evaporite minerals, Glomar Challenger findings, Miocene desiccation,	Galileo's experiments, terminal velocity, gravity, acceleration of gravity
salt, Mediterranean as desert 1972 Dec p 26-36 [904] fossil reefs, algae, coral, coral rings, paleontology, climatic change, dating	1975 Mar p 102–111
by coral rings 1966 Oct p 26–33 [871]	free radicals, ionizing radiation photoelectric effect, Compton effect,
climatic change, coral reefs energy cycle, manne ecosystems, reef	chemical effects, cytology, lethal effects of radiation
evolution 1972 June p 54-65 [901] fossil river, Teays river, Kanawha river 1952 June p 74-80	1951 Dec p 22–25
fossil tracks, animal behavior, evolution, fossil animal tracks, burrows	chain reaction, chain initiators, half-life reaction kinetics 1953 Dec p 74-78
1967 Aug p 72-80 [872]	cryogenics, frozen free radicals, free radicals trapped for study
'fossil' water, irrigation ground water, artesian well, agricultural technology, Sahara desert water resource management, land	1957 Mar p. 90–102 (263)
reclamation, intercalary water, making desert fertile	ionizing radiation, polymerization, organic chemistry, ionizing radiation in industrial chemistry 1959 Sept p 180-196
1966 May p 21-29	photolysis photochemistry, chemical reaction, reaction kinetics
foundations of mathematics, geometry, intuition, Hans Hahn on geometry and intuition 1954 Apr. p. 84-91	spectroscopy, color centers, high speed chemistry
and intuition 1954 Apr p 84-91 mathematical proof, mathematical philosophy, set theory	catalysis corona discharge ozone national state of the st
1964 Sept p 112-127	catalysis corona discharge, ozone, polymerization, corona chemistry, water purification, hydrocarbon cracking 1965 June p 90–98
four-color-map problem mathematical proof, proof by computer 1977 Oct p 108-121 [387]	aging, radiation damage, electron-spin resonance, chemical bond
foundling institutions, birth control celibacy, disease, infanticide	spectroscopy, effects of free radicals on living systems
Malthusian doctrine, marriage age, population growth, population	trapped for study 1970 Aug p 70–83 [335] 1955 Jan p 48
control in Europe 1750-1850 1972 Feb p 92-99 [674] fountain effect, helium supercooling superfluidity, neutron scattering.	solidified and stored radicals
'quasi particles' model of liquid helium 1960 Nov p 138–150 [272]	formation in photosynthesis freedom of expression, communication, civil rights, U S First
	Amendment 1972 Sept p 163–172 [680]
	1772 Sept p 103-172 [680]

freedom of science, science funding, science policy, university science, creativity, conditions favoring advance in science	energy transformation, energy demand, fuel-conversion efficiency,
freeze, accelerated by glycerol 1958 Sept. p. 170-17	The state of the s
Frenquel, psychoactive drugs, tranquilizers, chlorpromazine, reserpine	power, comparative efficiencies of energy transformation pathways in industrial civilization 1971 Sept. p. 148–160 [668]
frequency modulation, radio, communication, Armstrong, life and work of Fdwin H. Armstrong 1954 Apr. p. 64-6	energy resources, hydrogen, electrolyzer technology, hydrogen-energy
frequency response, control systems, automatic control	coal-burning 1952 Oct p 40
servomechanisms, actuators, pneum itie servomechanisms, hydraulie servomechanisms, control systems 1952 Sept. p. 56-6	industrialization, population, energy resources, energy requirements
control theory, mathematics, expernetics, computer programming	and resources for economic development 1963 Sept p 110-126 automobiles, energy conservation, engine efficiency
feedback, stability, dynamic programming, 'policy' concept 1964 Sept. p. 186-200	1975 Ian p 34-44
Freshel rings, Moire patterns, optics without lens, properties and uses	fuel-conversion efficiency, energy transformation, energy demand power,
Freud, psychoanalysis, dreams 1963 May p 54-63 [299 1949 May p 44-47 [495	prime movers, steam turbines, magnetohydrodynamics gas turbine, internal combustion engine, fuel cell, solar cells, power, nuclear
psychoanalysis, biography and appraisal of Sigmund Freud at \$2 1949 Oct. p. 50-54	power, comparative efficiencies of energy transformation pathways
friction, Leonardo, Coulomb, technology history, sliding surfaces,	fuel-element fabrication, 'atoms for peace', nuclear power, nuclear fuel,
stick-slip friction, bearing, violin bow, lubrication, uses and prevention	uranium ore, Geneva chemistry 1955 Oct p 34-37 fuel imports, energy resources, liquid natural gas technology assessment,
of friction 1956 May p 109-118 bearing, mechanical engineering, lubrication, sliding rolling.	risk estimation, tankers, LNG 1977 Apr p 22-29
pressurized-contactless bearings 1966 Mar p 60-71	
perpetual motion machines, entropy, thermodynamics 1968 Jan p 114-122	fundamental reasoning, probability, statistics, mathematical proof, fundamental research, What is probability? 1953 Sept. p. 128-138
bearing, gears, technology history, Leonardo, Codex Madrid I 1971 Feb. p. 100-110	fundamental research, NSF, science funding, university research.
Beilby layer, ferrograph analysis, lubrication, michine wear, metal	curiosity, science funding, 'mission-oriented' funding agencies
fatigue, particles of wear, wear 1974 May p 88-97 bearing, lubrication, journal bearing, wear 1975 July p 50-64	university science, N.S.F., introduction to a single-topic issue on fundamental questions in science 1953 Sept. p. 47-51
frog, salamander, regeneration, embryonic development, nerve fibers, role	matter, wave-particle duality, energy levels, electromagnetic force, nuclear forces, gravitation, field theory, quantum jumps, corpuscular
tadpole, thyroid hormone, amphibian metamorphosis, chemistry of	streams what is matter? 1953 Sept p 52-57 [241]
amphibian metamorphosis 1963 Nov p 110-118 [170] amphibian, color vision, retina, retinal image-processing, visual	electromagnetic force, nuclear forces, proton, neutron, mesons, particle scattering, high-energy physics, what holds the nucleus together?
perception, retinal processing of visual sensation 1964 Mar p 110-119	1953 Sept p 58-63 cosmic radiation, massive nuclei, high-energy physics, Milky Way.
amphibian, metamorphosis, thyroxin, pituitary gland, hypothalamus,	magnetic field, particle acceleration, supernovae, where do cosmic
neurosecretory system, hormone, chemistry of amphibian metamorphosis 1966 May p 76-88 [1042]	stellar populations, stellar evolution, galactic rotation, galactic
frog calls, sound spectrogram 1950 May p 46-47 frog eggs, genetic engineering, gene expression, hemoglobin, mRNA,	evolution, Why do galaxies have spiral form? 1953 Sept p 89-99 embryonic development, cell differentiation, embryological 'organizer',
RNA molecule 1976 Aug p 60–71 [1343]	Cartesian diver, How do cells differentiate? 1953 Sept p 108-116 memory, brain, learning, cerebral cortex, What is memory?
frog embry o, cell differentiation, nucleus transplantation, clone, genetic engineering, somatic cell nucleus, gene complement, gene regulation	1953 Sept p 118–120 (111
1968 Dec p 24-35 [1128] frontier history, cavalry, Mongol conquests, war, Chingis Khan, nomatic	probability, statistics, mathematical proof, fundamental reasoning What is probability? 1953 Sept p 128-138
civilization, Chingis Khan, biography 1963 Aug p 54-68 frontier life, Britain, Roman Britain, Hadrian's Wall, Vindolanda site	N S F, science funding university science 1954 Mar p 25-33
1977 Feb p 39-46 [692]	institutional grants, science policy, project grants, university science, problems in government support of science in the US
frost, ice, snow, water, supercooling, condensation nuclei, ice worms, how water freezes 1959 Feb p 114-122	1965 July p 19-25
frostbite, capillary bed, rapid thawing prescribed 1952 Feb p 52-56 cryogenic storage, spermatozoon bank, ussue preservation, freezing of	funerary monument, archeology, Nemrud Dagh, burial site Turkey, tomb of Antiochus I 1956 July p 38-44
living cells 1956 June p 105-114	fungal hyphae, rain-forest ecosystem, slash-burn agriculture, ecological fragility, tropical rain forest 1973 Dec p 58-67 [1286]
frozen free radicals. Jupiter, imine radical, hydrazine radical, low	fungal infection, histoplasmosis, respiratory infection, airborne infection epidemiology, coccidioidomycosis 1948 June p 12–15
temperature physics modelling of Jupiter 1990 June p 119 120	eelgrass, marine ecology, foodchain, ecology, account of an ecological
1957 Mai p 30-102 (2003)	potato blight, plant genetics, late-blight of potatoes
fruit fly, gene mutation, insect eye, paper chromatography, machine 1062 Apr. p. 100-110 [1166]	1959 May p 100-112 [109] disease-resistant plants, plant breeding, agronomy, plant disease, plant
the fruit fly cell culture, cell differentiation, larvae, transdetermination 1968 Nov p 110-120 [1127]	pathogens, sugarcane, mechanism of disease resistance in plants 1975 Jan p 80-88 [1313]
sexual behavior, releaser stimulus, courtship song, insect behavior,	fungi, mycology, wheat rust, ergot, potato blight, morel, amanita, Penicillium notatum, yeast, molds and men
species specificity	1952 Jan p 28-32 [115] wheat, einkorn, wild einkorn, emmer, hybrid cells, chromosome
1954 May p 40-44 [118]	doubling plant breeding, origin and perfection of wheat 1953 July p 50-59
fuel cell, battery, electric power generation, energy transformer	mushrooms, plant growth mycelium, burgeoning explained 1956 May p 97-106
energy economics, direct conversion chemical to 1959 Oct p 72–78	oak blight forestry, threat to U S oak population 1957 May p 112-122
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carnivorous plants, soil molds, nematodes, carnivorou	s fungi	Clouds of Magellan, nebulae, globular cluster stars	s, Southern sky, Eta
1958 July p 67–72 [1094]		Carina, astronomical riches of the southern sky 1952 July p 46-57 Milky Way, quasars, radio source, Sagittarius A, Seyfert galaxies, spiral	
algae, lichens, symbiosis, desert ecology, polar ecology nature of lichens 1959 Oct	p 144–156 [111]	galaxies	1974 Apr p 66-77
algae, lichens, symbiosis, fungi as symbionts in lichens		infrared observation	1967 June p 52
1963	3 Feb p 122–132	galactic clusters, turbulence, nebulae, galaxies, luerar	
orchids, symbiosis, mycorrhiza, plant evolution, adap	tation, adaptive	space supergalaxy, Milky Way, local clusters	1952 June p 26–30 1954 July p 30–35
	966 Jan p 70–78	astronomy, philosophy of science, universe, planet	
insect behavior, fungus gardens, mutualism, insect-fun	p 112–120 [1086]	system, cosmology, introduction to single-topic	
bacteria, ectoparasites, skin, lice, hair, human skin ecc	osystem		1956 Sept p 72-81
1969 Jan	p 108–115 [1132]	radio astronomy, colliding galaxies, powerful signa	
mushrooms, mushroom poisoning, toxins, Amanita p	halloides, thioctic	of astronomy l cosmology, red shift, universe expansion, universe,	.956 Sept p 125–134
acid 19 ungus gardens, fungi, insect behavior, mutualism, insec	75 Mar p 90–101	galaxies, recession velocity, observational cosmo	
1967 Nov	p 112–120 [1086]		Sept p 170-182 [240]
ur, circulatory system, thermoregulation, cold adaptati	on, metabolism,	probability, universe, gravitation, cosmology, Mon	
insulation 1966 Jan	i p 94–101 [1032]	distribution of galaxies as test of cosmologies 1 galactic evolution, universe, irregular galaxies, irre	
urnace, fire-making, human evolution, fire vegetation, revolution, kiln, heat, introduction to single-topic i	cooking, Neomine	clues to galactic evolution	1961 Feb p 50–57
levolution, kim, neat, introduction to single topic i	954 Sept p 52-57	Andromeda Galaxy, local clusters, M81 cluster, Vi	
fusion reactor, nuclear power, astron technology	1958 Oct p 53		7 Nov p 76–98 [390]
fusion bomb, see hydrogen bomb, atomic bomb	6 1	Milky Way belongs to one	1953 Dec p 54
fusion fuels, energy consumption, energy resources, fiss	ion fuels, power,	galactic collision, radio star, Crab Nebula, supernova 200 radio stars counted, some speculation on the	
fossil fuel, geothermal energy, solar energy, tidal en	ept p 60–70 [663]	200 facto stars counted, some speculation on the	1953 Jan p 17–21
fusion reactor, nuclear power, 'atoms for peace', thermo		galactic dust clouds, galaxy structure, interstellar mat	
fission reactor, CER.N, first of a four-part repor	t on the	stellar formation, supernovae, nebulae, Gum Ne	:
International Conference on the Peaceful Uses of	Atomic Energy, 1955 Oct p 27–33	galactic energetics, black hole, binary stars, globular	1972 Aug p 48-61
Geneva, August 1945 nuclear power, magnetohydrodynamics, plasma cont	ainment pinch	stars, stellar evolution, X-ray stars, astronomy s	
effect, thermonuclear reaction, thermonuclear ene	rgy for domestic	197	7 Oct p 42-55 [385]
power 1957 I	Dec p 73–84 [236]	galactic evolution, Palomar Observatory, cosmology,	
nuclear power, magnetic bottle, plasma confinement	, deuterium, 1958 Oct p 28–35	populations, interstellar matter, Hale telescope, inch telescope	1952 Feb p 43-51
tritium, magnetic pumping, stellerator nuclear power, plasma confinement, magnetic bottle		stellar populations, stellar evolution, galactic rotat	
plasma physics	1966 Dec p 21–31	research, Why do galaxies have spiral form?	1953 Sept p 89-99
magnetic field, plasma instability, thermonuclear rea	iction, magnetic	cosmology, universe expansion, Olber's paradox, v	
bottle, anomalous diffusion, nuclear power, leakage	ge of plasma 1967 July p 76–88	of space, red shift, evolutionary universe, elemen	1954 Mar p 54-63
nuclear power, recycling, materials, fusion torch, end		gravitational collapse, barred galaxy, spiral galaxie	
transformation, plasma containment, magnetohyo	irodynamics	evolution from taxonomy 1	956 Sept p 100-108
1971	Feb p 50-64 [340]	Cepheid variable, 'cosmic yardstick', universe evol	
laser-pulse fusion, plasma physics, nuclear power nuclear power, plasma confinement, Tokomak, mag	netic bottle	umverse, irregular galaxies, galactic clusters, irregu	1959 July p 48–55
	1972 July p 65–75	to galactic evolution	1961 Feb p 50–57
laser implosion, nuclear power, nuclear power, there	nonuclear reaction,	spiral galaxies, elliptical galaxies, origin and histor	y from shape
plasma confinement research at Los Alamos	1974 June p 24-37 1949 May p 29	interstellar hydrogen, microwaves, radio astronom	1963 Jan p 70–84
Argentine tall tale	1951 May p 32		1963 June p 94–106
Project Sherwood	1955 Nov p 54	gravity, red shift, gravitational instability, primord	lial fireball,
magnetic 'pinch effect'	1956 Feb p 54	nonuniformities, protogalaxies, origin of galaxie	
research in USSR. nuclear power, thermonuclear power potential	1956 June p 58 1956 Oct p 68	seen forming	1970 June p 26–35
progress report	1956 Nov p 60	see also dust cloud hypothesis	1976 May p 54
zero-energy thermonuclear assembly (ZETA) 'Per		galactic formation, comet, nebular hypothesis, solar s	ystem evolution,
US program	1958 Mar p 50 1958 June p 45	stellar evolution	1975 Sept p 32-41
Geneva conference on thermonuclear research	1958 Nov p 52	galactic halo, cosmic radiation, radio galaxies, quasai radio source, extragalactic radio source as origin	S, radio astronomy,
nuclear power, fusion reactor technology	1960 Nov p 100		1966 Aug. p 32-38
progress at Livermore	1960 Dec p 82	cosmic radiation, cosmic ray showers, supernovae,	synchrotron
U S version of Tokamak proton-boron fuel cycle	1970 Mar p 60 1973 Nov p 48	radiation, particle acceleration, abundance, ener cosmic rays	gies, sources of
fusion torch, nuclear power, recycling, materials, fusion	n reactor, energy	galactic interactions, galaxy shapes, intergalactic tide	1969 Feb p 50–63
transformation, plasma containment, magnetohy		dynamics, intergalactic bridges	1973 Dec n 38 48
1971	Feb p 50-64 [340]	galactic magnetism, cosmic radiation, supernovae, co	smic ray showers,
		evidence for particles of 10 ¹⁵ ev energy 1 cosmic radiation, solar particles, geomagnetism, ga	959 Nov p 134–146
Ģ		theory	1960 June n 64 71
O		Faraday rotation, starlight polarization, spiral gala	Kies spiral arme
g factor, antimatter, electron, magnetic moment, elec-	tron spin, positron.	stiffening of spiral arms by Milky Way magnetic	e field
magnetic bottle	1968 Jan n 72-85	measurement based on Zeeman effect	1965 June p 46-54 1960 Nov p 94
g-forces, space medicine, acceleration, weightlessness canals, black-out	, semicircular 1951 Jan p 16-19	magnetic fields	1064 1.1 46
galactic center, Milky Way, nebulae, globular cluster	stars, spiral arms,	galactic nucleus, spiral structure, interstellar hydroge, galaxy, mapping the local Galaxy 1959	n, radio astronomy.
dust clouds, seeing a galaxy from the inside	1950 Feb p 30-39	quasars, Seyfert galaxies, radio emission	Aug p 44-51 [250]
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galactic radiation, gravitational waves, gravitational-radiation detector,	Jupiter Joseph ratellitas references To C. B. C. B.
1071 14	Jupiter, Joyian satellites, solar system, Europa, Callisto, Ganymede Io 1976 May p. 103-116
galactic radio sources, radio astronomy, radio galaxies	Galife o's experiments, free fall, terminal velocity, gravity, acceleration of
galactic recession, cosmology, red shift, element abundance, 'synthetic'	35 gravity 1975 Mar p 102-111 time-keeping, gravitational acceleration, music as time measure
cientents, universe expansion 1018 July p. 20	1975 June p. 98–104
astronomy, galaxies, red shift, universe expansion, science, stellar evolution, general relativity, astronomy 1900-1950	Galileo's heresy, Bruno, science history, Copernican revolution
1950 Sept. p. 24	martyrdom of Giordano Bruno re-examined 1973 Apr p 86-94 Gableo's sexton, abacus, calculating machine, mechanical calculators
galactic rotation, stellar populations stell ir evolution, galactic evolution fundamental research. Why do galaxies have spiral form?	• Slide rule, sexton 1976 Apr p 104-113
1953 Sept. p. 89-6	Galley Hill skull, Homo sapiens Neanderthal man, Charente skull, human evolution, Swanscombe cranium, antiquity of Homo sapiens
Andromeda Galaxy 1973 June p. 30.	36 1948 July p 16-19
galactic structure. Clouds of Magell in, spiral galaxies, radio astronomy, resolution of structure of nearest galaxies 1956 Apr. p. 52-5	gallium arsenide, electric field. Gunn effect, microwave emission, negative
stellar populations, spiral arms, stellar classification and structure of	generation 1966 Aug. p. 22-31
galaxies 1958 Nov. p. 44-50 [20] galactic survey, Palomar Observatory, Hale telescope, Schmidt telescope	gallstones, crystal structure, lithiasis, kidney calculi, X-ray diffraction,
cosmology, 200-inch and 48-inch Palomar telescopes	bladder stones, unnary calculi 1968 Dec p 104-111 Galton, correlation theory, eugenics, dermatoglyphics, life and work of
1948 Aug p 12-1	7 Francis Galton, regression to mean 1954 Jan p 72–76
galactic yardstick, universe expansion, Cepheid variable, Clouds of Magellan, Andromed i Galaxy, doubling of yardstick doubles size	Galvani, animal electricity, voltaic pile, a major discovery in physics as
and age of the universe 1953 June p. 56-6	well as biology 1950 Feb p 40-43 battery, electrochemistry, electric power, Volta, Volta's contributions
spectroscopy, stellar distances, calcium absorption lines supply new	biography 1965 Jan p 82-91
'yardstick' 1961 Jan p 107-11 Galapagos Islands, Darwin's finches, speciation, evolution	galvanic cell, pH, glass electrode, hydrogen ions, acidity 1951 Jan p 40-43
1953 Apr. p 66–72 [22	
galaxies, astronomy, red shift, galactic recession, universe expansion, science, stellar evolution, general relativity, astronomy 1900-1950	Leduc effect, thermomagnetism, science history, industrial
1950 Sept p 24-27	technology, technological applications of 19th c discoveries 1961 Dec p 124-136
turbulence, nebulae, galactic clusters, hierarchy of turbulence in space	gambler's fallacy, probability, law of large numbers, random walk,
1952 June p 26-30 cosmology, red shift, universe expansion, universe, spectroscopy,	mathematical proof, philosophy of science 1950 Oct p 44-47 gambling, psychology, probability, decision making, subjective
recession velocity, galactic clusters, observational cosmology	probability, Monte Carlo fallacy, subjective and objective
1956 Sept p 170-182 [240] BL Lacertae objects, quasars, radio astronomy	probability 1957 Nov p 128-138 [427] games theory, mathematics, decision theory, work of J Von Neumann
1977 Aug. p 32–39 [372]	and O Morgenstern 1949 May p 22-23
pregalactic formations 1963 Feb p 65	uncertainty principle, decision theory, probability, pure strategy, card
Local Group, Maffei 1 and 2 1971 Mar p 44 galaxy, stellar evolution, massive stars, nebulae, stellar associations,	decision theory minimax pure strategy, mixed stratgey, worst-case
massive stars are short-lived 1956 Feb p 36-41	analysis 1955 Feb p 78-83 human conflict, probability, zero-sum game, multary strategy, use and
radio astronomy, interstellar hydrogen, radio star, the radio sky 1956 July p 32-37	misuse of game theory 1962 Dec p 100-110
stellar evolution, universe, stellar populations, spiral galaxies,	logic, computer theory, algorithms, problem solving, Turing machine 1965 Nov p 98-106
distribution of 'population I' and 'II' stars in local Galaxy 1956 Sept p 92-99	mathematical logic paradox decision theory, 'metalogic' to solve
spiral structure, interstellar hydrogen, radio astronomy, galactic	paradox 1967 July p 50-50
nucleus, mapping the local Galaxy 1959 Aug p 44-51 [250] radio astronomy, spiral arms, interstellar hydrogen, mapping the spiral	gametocyte, biological clock, malaria, Plasmodium, parasitism, reproduction, mosquitoes 1970 June p 123–131 [1181]
arms of the local Galaxy 1959 Dec p 92-104	Gamma Draconis, Earth, orbital motion, stellar aberration, discovery of
Clouds of Magellan, stellar evolution, ultraviolet radiation 1964 Jan p 32-41	gamma radiation, forest ecosystem, X-ray, white oak, atomic bomb test,
Doppler effect, hydroxyl radical, microwaves, radio-absorption, gas	weeds, environmental pollution, ecological effects of high-energy
clouds 1965 July p 26-33	DDT soil pollution, herbicide, X-ray, soil ecology
V = 1966 Apr p 50	1969 Apr p 88-99 [1138] atomic nucleus, chemical bond, energy levels, molecular structure.
see also galaxies, galactic evolution, galactic magnetism, galactic halo,	Mbssbauer spectroscopy 1971 Oct p 86–93
Milky Way, galactic clusters galaxy M 82, cosmic radiation, radio galaxies, synchrotron radiation,	antimatter, crystal structure, gravitational interaction, positron probes, solid state physics, scintigraph 1975 July p 34-42
exploding galaxies, proposed origin of cosmic rays 1964 Nov p 38-47	gamma radiation spectrometry, variation of scintillation counter
1950 Aug p 30	1950 July p 28 gamma-ray astronomy, Earth satellite, telemetry, first glimpse
galaxy shapes, galactic interactions, intergalactic tides, galaxy shapes, galactic interactions, intergalactic tides, galaxy	of gamma-ray sky 1962 May p 52-61
dynamics, integrated bridges Milky Way, stellar formation,	black hole, cosmic radiation, neutron stars, pulsar, satellite astronomy, Cygnus X-1 1976 Oct p 66-79A
supernovae, galactic dust clouds, liebulae, Galactic Aug p 48-61	gamma ray star. Sagittarius 1969 Nov p 57
globules Galen work and influence	gammaglobulin, poliomyelitis, epidemiology, immunity, blood fractionation, vaccine 1953 July p 25-29
	bacterial infection, blood proteins, antibodies, immunology, tissue grafts, agammaglobulinemia, hereditary immunological deficiency
Galilean relativity, gravity, inertia, Einstein, frames of reference, philosophy of science, relativity, identity of inertia and gravity 1957 Feb p 99–109	1957 July p 93–104
Califor by by and	antibodies, antigens, antigen-antibody reaction, antibody-antigen
Galileo, moons of Jupiter, inertia, gravity, Galileo, biography and 1949 Aug p 40-47 appraisal	region cells, color vision, retina, cone cells, pigments,
appraisal falling-body velocity, free fall, Merton rule, science history 1973 May p 84-92	spectrophotometry, three-color receptor system 1964 Dec p 48–56 [197]

ganglion reflexes, cell communication, central nervous system, nerve	charmonium, charmed quarks, high-energy physics, hadrons, leptons,
conduction, neuroreceptors, retina, nerve impulse, neurotransmitters, neural synapse, cytology, neuromuscular synapse,	quark hypothesis, 'color' and 'flavor' in quarks 1975 Oct p 38-50 Gauls in France, Celtic religion, Seine River source, shrine of Sequana
how cells communicate 1961 Sept p 209-220 [98]	1971 July p 65–73
Ganymede, Galileo, Jupiter, Jovian satellites, solar system, Europa, Callisto. Io 1976 May p 108-116	Gauss, mathematics history, number theory, Disquisitiones Arithmeticae 1977 July p 122-131 [371]
gas, pipelines, fluid dynamics, oil, slurnes, history and technology of pipelines 1967 Jan p 62-72	gears, bearing, friction, technology history, Leonardo, Codex Madrid I 1971 Feb p 100-110
gas chromatography, chemical separation, sensitivity and application	gegenschein, gas-taul hypothesis 1971 Aug p 47 Geiger counter, exoelectrons, metal fatigue, metal-surface defects, wear
1961 Oct p 58-67 [276] fossil record, organic molecules, sedimentary rock, chlorophyll,	1977 Jan p 74-82 [350]
hydrocarbons, 'chemical fossils' 1967 Jan p 32–43 [308]	gemstones, diffraction, grain structure, opal colors, periodic structures,
high sensitivity 1958 Apr p 52 hacterial 'signature' 1966 July p 54	silica-sphere packing 1976 Apr p 84-95 gene action visualized, DNA transcription, electron microscopy,
gas clouds, Doppler effect, hydroxyl radical, microwaves, galaxy, radio-	nbosome, mRNA 1973 Mar p 34-42 [1267]
absorption 1965 July p 26–33	gene activation, actinomyosin, ecdysone, cortisone, insulin, estrogens, RNA synthesis, aldosterone, growth hormone, ACTH, thyroxin,
gas compression, shock waves, shock tube, high temperature, plasma, mechanically and electromagnetically driven shock waves	mechanism of hormone action 1965 June p 36-45 [1013]
1963 Feb p 109–119	gene complement, hybrid cells, DNA, RNA, ribosomal RNA, gene
gas exchange, thorax, lung, pulmonary ventilation, breathing, alveoli, human physiology, vital capacity, mechanics and physiology of	transcription, density-gradient centrifugation, DNA-RNA hybridization experiments 1964 May p 48-56
breathing, anatomy of lung 1966 Feb p 56–68 [1034]	cell differentiation, nucleus transplantation, clone, genetic engineering,
lung, gill, oxygen transfer, carbon dioxide, water-breathing by	somatic cell nucleus, frog embryo, gene regulation
mammals, breathing, animal experiments in water-breathing 1968 Aug p 66-74 [1123]	1968 Dec p 24-35 [1128] gene culture, polyoma virus, cell transformation, SV40 virus, viral DNA,
gas hydrates, clathrates, inclusion compounds, crystallography, inclusion	viral carcinogenesis 1967 Apr p 28-37 [1069]
compounds in biology and technology 1962 July p 82-92 [280]	gene expression, neurospora, mutation, natural selection, Mendelian inheritance, genetic disease, tryptophan-niacin relation, one gene-
gas injection, petroleum, water injection, secondary recovery 1965 July p 34-42	one enzyme hypothesis, selection for defect 1948 Sept p 30-39 [1]
gas kinetics, Monte Carlo method, computer modeling, mathematical	phenotype, genotype, mutation 1949 Oct p 46-49
model, chemistry by computer 1964 July p 100–108 gas laser, Raman laser effect, solid-state lasers, diode junction laser, laser	agammaglobulinemia, alkaptonuria, Wilson's disease, congenital anomalies, chemistry of hereditary disease, one gene-one enzyme
technology in rapid development 1963 July p 34-45 [294]	hypothesis 1956 Dec p 126-136
carbon dioxide, laser, infrared radiation, nitrogen, physics of carbon	cancer, multipotential cells, tumor, teratoma, plant cell, inhibitions
dioxide laser 1968 Aug p 22–33 Doppler effect, energy levels, laser spectroscopy, spectroscopy	1965 Nov p 75-83 [1024] phagocytosis, repressor molecules, operator-repressor system, lac
1973 Dec p 69-85	repressor, lambda repressor, isolation of two gene repressors, how
gas molecules, molecular beam, electron theory, resonance absorption, atomic radiation, coherent radiation, nuclear magnetic resonance,	they work 1970 June p 36-44 [1179] DNA operator, DNA repressor, gene regulation, host-restriction
Stern-Gerlach experiment 1965 May p 58-74	endonuclease, operator-repressor system 1976 Jan p 64-76 [1333]
gas phase, superfluidity, helium 3, liquid phase, solid state physics,	genetic engineering, frog eggs, hemoglobin, mRNA, RNA molecule
quantum effects, quantum fluids, phase transitions 1976 Dec p 56-71	1976 Aug p 60-71 [1343] bacteriophage structure, latent viruses, provirus, virus action,
gas plasma, ball lightning, nuclear fusion, ionization, Kapitza theory, Hill	coexisting viruses, viral genes in host chromosome
theory 1963 Mar p 106-116 gas separation, laser, laser-light pressure, radiation pressure, isotope	1976 Dec p 102–113 [1347] repressors isolated 1967 June p 52
separation, 'optical bottle', atomic and molecular beams	bind to gene operators 1974 June p 48
1972 Feb p 62-71 gas stream, fluidization, petroleum cracking, particle bed, turbulence,	gene fusion, large, two-function enzymes 1971 Jan p 46 gene isolation, DNA fractionation, ribosome, ribosomal RNA-coding
food processing 1968 July p 94–104	genes 1973 Aug p 20-29 [1278]
gas turbine, aircraft propulsion, centrifugal compressor, axial-flow compressor, ducted fan, electric power generation	comparative religion, ethnic groups, Israel, Judaism, Samaritans,
1953 Nov p 65-72	Holon and Nablus communities 1977 Jan p 100–108 [690] isolation of single gene 1962 Apr p 77
energy transformation, energy demand, fuel-conversion efficiency,	lac operon 1970 Jan p 50
power, prime movers, steam turbines, magnetohydrodynamics, internal combustion engine, fuel cell, solar cells, power, nuclear	gene loci, fruit fly, genetics of behavior, insect behavior, genetic mosaic, mutants 1973 Dec p 24-37 [1285]
power, comparative efficiencies of energy transformation pathways	gene manipulation, electrophoresis, sex determination, spermatozoon
in industrial civilization 1971 Sept p 148-160 [668] coal gasification, pollution control, oil gasification, energy resources	motility, sorting out Y-bearing sperm by electrophoresis
1972 Oct p 26-35	1958 Nov p 87-94 resource management, grafting techniques, forestry, Southern pine, tree
single-crystal blades 1967 Feb p 58 gas vacuoles, algae, algal bloom, blue-green bacteria, cyanobacteria	farming, seed-orchard concept 1971 Nov p 94-103 molecular cloning, plasmids, recombinant DNA, Asilomar conference,
1977 Aug p 90-97 [1367]	hazard evaluation 1975 July p. 24_33 [1324]
gasification processes, coal gasification, energy resources, Lurgi process, Hygas process, synthane process CO ₂ acceptor process, coal	agricultural resources, irrigation, photosynthesis, food and agriculture
technology 1974 Mar n 19-25	1976 Sept p 164-178 gene splicing, National Academy of Sciences, recombinant DNA,
gasoline from coal, Bureau of Mines pilot plant 1951 Jan p 28 gastrointestinal gas, hydrogen from colon 1969 Sept p 95	science policy, NIH guidelines 1977 July p. 22–23 [1362]
gastrula, cell differentiation, embryonic development, blastula,	altering mutation rate 1961 Oct p 86 gene mapping, DNA, chromosome, bacteriophage, mapping genes by
fertilization, ectoderm, mesoderm, endoderm embryological	induced and spontaneous mutations 1962 lange 70 94 (120)
'organizer', science history, review of classical embryology 1957 Nov. p. 79-88 [103]	bacteriophage, amber mutants, virus particles
gauge theory, particle interaction, high-energy physics, field theory.	protein structure amino-acid sequence, gene-protein colinearity, DNA
"weak" force, electromagnetic force, 'strong' force 1974 July p 50-59 electromagnetic force, particle interaction, neutrino interactions 'weak'	structure, mutation, base 1967 May p 80-94 [1074]
force, neutral-weak-current interactions 1974 Dec p 108-119	•

galactic radiation, gravitational waves, gravitation	al-radiation detector,	Jupiter, Jovenn's itellite, solar system Europa Callisto Ganamedeli
relativity theory galactic radio sources, radio astronomy, radio gala	1971 May p. 22-2	1976 May n 102-116
	1975 Aug n 26 3	Ciable D's Capterionents front all terronnal colonies march, confermed
galactic recession, cosmology, red shift, element at elements, universe expansion	bund ince, 'synthetic'	time-keeping gravitational acceleration musical time matter
astronomy, galaxies, red shift, universe expansion	1945 July p. 20-2:	7 1975 June p 9위에
evolution, general relativity, astronomy 1900.	1950	Galileo's heresy. Bruno science history, Copernican resolution, marryrdom of Giordano Bruno re-examined 1973 Apr p 86-84
	1958 Sent in 24-21	marry from of Chordano Bruno re-examined 1973 Apr p & 34 Galileo's sexton, ab icus, calculating machine, mechanical calculators
galactic rotation, stellar populations, stellar evolution fundamental research, Why do galaxies have s	ion, galactic evolution,	slide rule, sexton 1976 Apr p 104-113
to careful why do galaxies have	1953 Sept. p. 89-99	Galley Hill skull, Homo sapiens, Neunderthal man, Charenteskull
Andromed i Galaxy	1973 June n 30 36	
galactic structure, Clouds of Magellan, spiral galax	ies, radio astronoms,	gallium arvenide, electric field. Gunn effect, micro and emission results
resolution of structure of nearest galaxies stellar populations, spiral arms, stellar classificat	1956 Apr p 52-58	resistance, solid state physics, electronics, solid state microwave
galaxies 19	58 Nov. n. 44_50 (203)	generation 1966 Aug p 22-31 gallstones, crystal structure, lithiasis, kidney calculi, X-ray diffraction.
galactic survey, Palomar Observatory, Hale telescop	pe. Schmidt telescope.	bladder stones, urmary calculi 1968 Dec p 104-111
cosmology, 200-inch and 48-inch Palomar tele		Galton, correlation theory, eugenics, dermatoglyphics, life and work of
galactic yardstick, universe expansion, Cepheid vari	1948 Aug p 12-17	Francis Galton, regression to mean 1954 Jan p 72-10
Magellan, Andromeda Galaxy, doubling of ya	rdstick doubles size	Galvani, animal electricity, voltaic pile, a major discovery in physics as well as biology 1950 Feb p 40-43
and age of the universe	1953 June p 56-66	battery, electrochemistry, electric power, Volta, Volta's contributions
spectroscopy, stellar distances, calcium absorptic 'yardstick'		biography 1965 Jan p 82-91
Galapagos Islands, Darwin's finches, speciation, esc	1961 Jan p 107–119	galvanic cell, pH, glass electrode, hydrogen ions acidity 1951 Jan p 40-43
1	953 Apr p 66-72 [22]	galvanomagnetism, Ettingshausen ellect, Hall ellect, Nernst ellect, Right
galaxies, astronomy, red shift, galactic recession, ur	niverse expansion.	Leduc effect, thermomagnetism, science history, industrial
science, stellar evolution, general relativity, ast	ronomy 1900-1950 1950 Sept p 24-27	technology, technological applications of 19th c discovenes 1961 Dec p 124-136
turbulence, nebulae, galactic clusters, hierarchy o	f turbulence in space	cambler's fallow probability law of large numbers random walks
	1952 June p 26-30	mathematical proof, philosophy of science 1950 Oct p 44-47
cosmology, red shift, universe expansion, universe	e, spectroscopy,	gambling, psychology, probability, decision making, subjective
recession velocity, galactic clusters, observation 1956:	Sept p 170–182 [240]	probability. Monte Carlo fallacy, subjective and objective probability 1957 Nov p 128-138 [427]
BL Lacertae objects, quasars, radio astronomy		games theen mathematics desired theen used of I Von Neumann
197	77 Aug p 32-39 [372]	and O. Morgenstern 1949 Ma) P 22
pregalactic formations Local Group, Maffet 1 and 2	1963 Feb p 65 1971 Mar p 44	uncertainty principle, decision theory, probability, pure strategy, card games illustrate theory 1951 Jan p 44-47
galaxy, stellar evolution, massive stars, nebulae, stel		description with the state of t
massive stars are short-lived	1956 Feb p 36-41	analises 1930 Feb P 18 1
radio astronomy, interstellar hydrogen, radio star,	, the radio sky 1956 July p 32–37	human conflict, probability, zero-sum game, military strategy, use and misuse of game theory 1962 Dec p 108-118
stellar evolution, universe, stellar populations, spir		to a support of the same already problem rolling Turing machine
distribution of 'population I' and 'II' stars in lo	cal Galaxy	1903 Nov p
amoral admirations, outside all as he described and a setting	1956 Sept p 92-99	mathematical logic, paradox, decision theory, 'metalogic' to solve paradox 1967 July p 50-56
spiral structure, interstellar hydrogen, radio astror nucleus, mapping the local Galaxy 1959	9 Aug p 44–51 [250]	the state of the s
radio astronomy, spiral arms, interstellar hydrogen	n, mapping the spiral	gametocyte, biological clock, malaria, Plasmodium, parasitism reproduction, mosquitoes 1970 June p 123-131 [1181]
arms of the local Galaxy Clouds of Magellan, stellar evolution, ultraviolet r.	1959 Dec p 92-104	Gamma Draconis, Earth, orbital motion, stellar aberration, discovery of stellar aberration by James Bradley 1964 Mar p 100-108
	1964 Jan p 32-41	nomina radiation forest ecosystem X-ray, white oak, atomic bomb less
Doppler effect, hydroxyl radical, microwaves, radio	o-absorption, gas	weeds, environmental pollution, ecological effects of high-chests
clouds	1965 July p 26-33 1963 Sept p 86	ppm - 1 - 11 + 1 1 - 1 - 1 - V - 1 V - 1 - 1 - 1 - 1 -
M82 as supersupernova X-ray galaxies	1966 Apr p 50	1969 Apr p 88-99 [1130]
see also galaxies, galactic evolution, galactic magni	etism, galactic halo,	atomic nucleus, chemical bond, energy levels, molecular structure, Mossbauer spectroscopy 1971 Oct p 86-95
Milky Way, galactic clusters galaxy M 82, cosmic radiation, radio galaxies, synchr	otron radiation,	entimates, aristal structure grantational interaction position probes
exploding galaxies, proposed origin of cosmic ray	ys	solid state physics, scintigraph 1975 July p 34-42 gamma radiation spectrometry, variation of scintillation counter
	1964 Nov p 38-47 1950 Aug p 30	1950 July P = -
galaxy-occulting galaxy, a gravitational lens galaxy shapes, galactic interactions, intergalactic tides	s, gravitational	gamma-ray astronomy, astronomy, Earth satellite, telemetry, first glimpse of gamma-ray sky 1962 May p 52-61
demanuse intergalactic DEIGES	1713 Dec p 30 10	block hale cosmic radiation, neutron stars, pulsar, satellite astronomy,
galaxy structure, interstellar matter, Milky Way, stella supernovae, galactic dust clouds, nebulae, Gum l	ir iormation, Vehula, Bok	Cygnus X-1 1976 Oct p 60-771
-1-h1-a	1712 MUS P TO VA	gamma ray star, Sagittarius gammaglobulin, poliomyelitis, epidemiology, immunity, blood
o t t t bester, human anatomy Galen, Work	and influence 57 Mar p 105-114	fractionation vaccine 1953 July p 25-25
G 12 Indian groupty martin Finstein frames of	reference,	bacterial infection blood proteins, antibodies, immunology, tissue
		grafts, agammaglobulinemia, hereditary immunological deficiency 1957 July p 93-104
		antibodies, antigens, antigen-antibody reaction, antibody-antigen
Galileo, moons of Jupiter, inertia, gravity, Galileo, bio appraisal		-anglian calls, color vision, reting, cone cells, pigments
a cut la communication of the contraction of the co	history 1973 May p 84-92	spectrophotometry, three-color receptor system
= =	INID INTER P OF YOU	1964 Dec p 48-56 [197]

ranglion reflexes, cell communication, central nervous system, nerve	charmonium, charmed quarks, high-energy physics, hadrons, leptons,
conduction, neuroreceptors, retina, nerve impulse,	quark hypothesis, 'color' and 'flavor' in quarks 1975 Oct. p. 38-50 Gauls in France, Celtic religion, Seine River source, shrine of Sequana
neurotransmitters, neural synapse, cytology, neuromuscular synapse, how cells communicate 1961 Sept. p. 209–220 [98]	1971 July p. 65–73
Ganymede, Galileo, Jupiter, Jovian satellites, solar system, Europa,	Gauss, mathematics history, number theory, Disquisitiones Arithmeticae
Callisto, Io 1976 May p. 108–116	1977 July p. 122–131 [371]
gas, pipelines, fluid dynamics, oil, slurries, history and technology of	gears, bearing, friction, technology history, Leonardo, Codex Madrid I
pipelines 1967 Jan. p. 62–72	1971 Feb. p. 100–110
gas chromatography, chemical separation, sensitivity and application 1961 Oct. p. 58-67 [276]	gegenschein, gas-tail hypothesis 1971 Aug. p. 47 Geiger counter, exoelectrons, metal fatigue, metal-surface defects, wear
fossil record, organic molecules, sedimentary rock, chlorophyll,	1977 Jan. p. 74–82 [350]
hydrocarbons, 'chemical fossils' 1967 Jan. p. 32–43 [308]	gemstones, diffraction, grain structure, opal colors, periodic structures,
high sensitivity 1958 Apr. p. 52	silica-sphere packing 1976 Apr. p. 84–95
bacterial 'signature' 1966 July p. 54	gene action visualized, DNA transcription, electron microscopy, ribosome, mRNA 1973 Mar. p. 34-42 [1267]
gas clouds, Doppler effect, hydroxyl radical, microwaves, galaxy, radio- absorption 1965 July p. 26-33	gene activation, actinomyosin, ecdysone, cortisone, insulin, estrogens,
gas compression, shock waves, shock tube, high temperature, plasma,	RNA synthesis, aldosterone, growth hormone, ACTH, thyroxin,
mechanically and electromagnetically driven shock waves	mechanism of hormone action 1965 June p. 36-45 [1013]
1963 Feb. p. 109–119	gene complement, hybrid cells, DNA, RNA, ribosomal RNA, gene
gas exchange, thorax, lung, pulmonary ventilation, breathing, alveoli, human physiology, vital capacity, mechanics and physiology of	transcription, density-gradient centrifugation, DNA-RNA hybridization experiments 1964 May p. 48-56
breathing, anatomy of lung 1966 Feb. p. 56–68 [1034]	cell differentiation, nucleus transplantation, clone, genetic engineering,
lung, gill, oxygen transfer, carbon dioxide, water-breathing by	somatic cell nucleus, frog embryo, gene regulation
mammals, breathing, animal experiments in water-breathing	1968 Dec. p. 24-35 [1128]
1968 Aug. p. 66–74 [1123]	gene culture, polyoma virus, cell transformation, SV40 virus, viral DNA,
gas hydrates, clathrates, inclusion compounds, crystallography, inclusion compounds in biology and technology 1962 July p. 82–92 [280]	viral carcinogenesis 1967 Apr. p. 28–37 [1069] gene expression, neurospora, mutation, natural selection, Mendelian
gas injection, petroleum, water injection, secondary recovery	inheritance, genetic disease, tryptophan-niacin relation, one gene-
1965 July p. 34–42	one enzyme hypothesis; selection for defect 1948 Sept. p. 30-39 [1]
gas kinetics, Monte Carlo method, computer modeling, mathematical	phenotype, genotype, mutation 1949 Oct. p. 46–49
model, chemistry by computer 1964 July p. 100-108 gas laser, Raman laser effect, solid-state lasers, diode junction laser, laser	agammaglobulinemia, alkaptonuria, Wilson's disease, congenital anomalies, chemistry of hereditary disease, one gene-one enzyme
technology in rapid development 1963 July p. 34–45 [294]	hypothesis 1956 Dec. p. 126–136
carbon dioxide, laser, infrared radiation, nitrogen, physics of carbon	cancer, multipotential cells, tumor, teratoma, plant cell, inhibitions
dioxide laser 1968 Aug. p. 22–33	1965 Nov. p. 75–83 [1024]
Doppler effect, energy levels, laser spectroscopy, spectroscopy 1973 Dec. p. 69–85	phagocytosis, repressor molecules, operator-repressor system, lac repressor, lambda repressor, isolation of two gene repressors; how
gas molecules, molecular beam, electron theory, resonance absorption,	they work 1970 June p. 36–44 [1179]
atomic radiation, coherent radiation, nuclear magnetic resonance,	DNA operator, DNA repressor, gene regulation, host-restriction
Stern-Gerlach experiment 1965 May p. 58–74	endonuclease, operator-repressor system 1976 Jan. p. 64-76 [1333]
gas phase, superfluidity, helium 3, liquid phase, solid state physics, quantum effects, quantum fluids, phase transitions	genetic engineering, frog eggs, hemoglobin, mRNA, RNA molecule
1976 Dec. p. 56–71	1976 Aug. p. 60–71 [1343] bacteriophage structure, latent viruses, provirus, virus action,
gas plasma, ball lightning, nuclear fusion, ionization, Kapitza theory, Hill	coexisting viruses, viral genes in host chromosome
theory 1963 Mar. p. 106–116	1976 Dec. p. 102-113 [1347]
gas separation, laser, laser-light pressure, radiation pressure, isotope separation, 'optical bottle', atomic and molecular beams	repressors isolated 1967 June p. 52 bind to gene operators 1974 June p. 48
1972 Feb. p. 62–71	bind to gene operators 1974 June p. 48 gene fusion, large, two-function enzymes 1971 Jan. p. 46
gas stream, fluidization, petroleum cracking, particle bed, turbulence,	gene isolation, DNA fractionation, ribosome, ribosomal RNA-coding
food processing 1968 July p. 94–104	genes 1973 Aug. p. 20–29 [1278]
gas turbine, aircraft propulsion, centrifugal compressor, axial-flow compressor, ducted fan, electric power generation	comparative religion, ethnic groups, Israel, Judaism, Samaritans, Holon and Nablus communities 1977 Jan. p. 100–108 [690]
1953 Nov. p. 65-72	isolation of single gene 1962 Apr. p. 77
energy transformation, energy demand, fuel-conversion efficiency,	lac operon 1970 Jan. p. 50
power, prime movers, steam turbines, magnetohydrodynamics, internal combustion engine, fuel cell, solar cells, power, nuclear	gene loci, fruit fly, genetics of behavior, insect behavior, genetic mosaic.
power, comparative efficiencies of energy transformation pathways	mutants 1973 Dec. p. 24-37 [1285] gene manipulation, electrophoresis, sex determination, spermatozoon
in industrial civilization 1971 Sept. p. 148–160 [668]	motility, sorting out Y-bearing sperm by electrophoresis
coal gasification, pollution control, oil gasification, energy resources	1958 Nov n 87-94
1972 Oct. p. 26-35 single-crystal blades 1967 Feb. p. 58	resource management, grafting techniques, forestry, Southern pine, tree farming, seed-orchard concept 1971 Nov. p. 94-103
gas vacuoles, algae, algal bloom, blue-green bacteria, cyanobacteria	farming, seed-orchard concept 1971 Nov. p. 94–103 molecular cloning, plasmids, recombinant DNA, Asilomar conference,
1977 Aug. p. 90–97 [1367]	hazard evaluation 1975 July p. 24-33 [1224]
gasification processes, coal gasification, energy resources, Lurgi process, Hygas process, synthane process, CO ₂ acceptor process, coal	agricultural resources, irrigation, photosynthesis, food and agriculture
technology 1974 Mar n 19–25	1976 Sept. p. 164-178 gene splicing, National Academy of Sciences, recombinant DNA,
gasoline from coal, Bureau of Mines pilot plant 1951, Jan. p. 28	science policy, NIH guidelines 1977 July p. 22, 22 112621
gastrointestinal gas, hydrogen from colon 1969 Sept. p. 95	altering mutation rate
gastrula, cell differentiation, embryonic development, blastula, fertilization, ectoderm, mesoderm, endoderm, embryological	gene mapping, DNA, chromosome, bacteriophage, mapping genes by
'organizer', science history, review of classical embryology	induced and spontaneous mutations 1962 Jan. p. 70-84 [120] bacteriophage, amber mutants, virus particles
1957 Nov. p. 79–88 (103)	1965 Eab = 70 78 ttop 4
gauge theory, particle interaction, high-energy physics, field theory, 'weak' force, electromagnetic force, 'strong' force 1974 July p. 50-59	protein structure, amino-acid sequence, gene-protein colinearity. DNA
dectromagnetic force, particle interaction, neutrino interactions, 'weak'	structure, mutation, base 1967 May p. 80–94 [1074]
force, neutral-weak-current interactions 1974 Dec. p. 108-119	•

cell culture, cell hybridization, cell differentiation, hybrid cells, Sendar	man translation to a t
virus, mouse-rat, mouse-hum in hybrid cells in laboratory	gene transduction, bacteria bacteriophage, recombinant DNA, bacterial
1969 Apr. n. 7635 (1137)	gene transduction by phage infection 1958 Nov p 38-43 [106]
chromosome, genetic disease, autosomes, chromosomal anomalies	gene transformation, bacteria, drug resistance, streptomycin
1971 Apr p 104_113 (1220)	pneumococcus, recombinant DNA, biochemistry of Avery, McLeod
cell hybridization, hybrid cells, mouse-human hybrid cells, somatic	and McCarty experiment 1956 Nov p 48-53 [18]
CCIIS 1974 Tule p. 36, 44 (1200)	adenoviruses, cancer virus, SV40 virus DNA virus DNA
gene mutation, cancer, evidence for genetic factor in laboratory animals	recombination, tumor-virus antigen, virus etiology of cancer
1950 July p 44-47	1966 Mar p 34-41
human evolution, natural selection, mutation, eugenies, 'man's genetic	pneumococcus, cell wall, recombinant DNA, transformation induced
future' 1952 Feb p 68-74	by factor synthesized by cell 1969 Jan p 38-44
chromosomal anomalies, lethal heredity 1952 July p 58-61	hacterial transformation, Diplococcus pneumoniae, extra-cellular
chromosomal anomalies, lethal heredity 1952 July p 58-61 tatoms for peace', radiation hazards, safety standards, Geneval biology	activator of transformation competence 1969 Dec p 38-44
answers beare transport payment variety rainer that General, probles	cancer, SV40 virus, chromosome mapping, tissue culture, somatic cells
crathrocyte sickle call duality countries to the p 36-42	hybrid cells, genetics of human cancer 1978 Feb p 117-125 [1381]
erothrocyte, siekle cell disease, genetic disease, single gene-single aminoacid deletion 1958 Jan p. 68-74	gene translocation, Down's syndrome, chromosomal anomalies
	Klinefelter's syndrome, trisomy 21, genetic defect, meiosis mitosis
fruit fly, insect eye, paper chromatography, fractionating the fruit fly	nondisjunction, afflictions associated with abnormal chromosome
1962 Apr. p 100-110 [1166]	complement 1961 Nos p 66-76 [150]
DNA, phage X174, single-stranded DNA 1962 July p 109-116 [128]	general education, little of it 1954 Dec p 60
DNA, RNA-DNA 'reverse' transfer, cancer virus, DNA polymerase,	general practitioner, medical care, community hospital, medical center,
RNA-directed DNA polymerase 1972 Jan p 24-33 [1239]	medical specialist, laboratory services. Bingham plan, organization
antibiotic resistance, bacteria, infectious disease, drug resistance,	of medical technology 1948 Oct p 7-13
plasmids, Rh factor, bacterial conjugation	general relativity, astronomy, galaxies, red shift, galactic recession,
1973 Apr p 18-27 [1269]	universe expansion, science, stellar evolution, astronomy 1900 1950
albinism, Siamese cat, visual cortex, white mink, white tiger, cross-eyed	1950 Sept p 24-27
trait 1974 May p. 44-54 [1294]	curvature of space, Riemann non-Euclidian geometry
air pollution, evolution, melanism, moths, population genetics,	1954 Nov p 80-86
predation, evolution observed again 1975 Jan p 90-99 [1314]	artificial satellite, relativity theory, Mercury, stellar shift,
genetic variation, natural selection, polymorphism, mollusk shells,	electromagnetic frequency shift, perihelion shift, clock paradox
biological diversity, discontinuous variation	testing Einstein's general theory of relativity 1959 May p 149-160
1975 Aug p 50-60 [1326]	gravitational constant, science history. Eötyös experiment, Eotyos
carcinogenesis, cancer epidemiology, environmental carcinogens,	experiment confirmed 1961 Dec p 84-94
immune response, virus disease, cancer prevention	star displaced 1 70 sec arc 1953 Feb p 39
1975 Nov. p. 64~78 [1330]	revision by Einstein 1953 May p 54
cat color, genetic variation, human migration, population genetics,	test for gravitational shift in frequency of gamma rays favorable but
cline maps, Hardy-Weinberg equilibrium	not conclusive 1960 Mar p 84
1977 Nov p 100-107 [1370]	test for gravitational frequency shift now judged conclusive
Hiroshima offspring no genetic harm, yet 1954 Jan p 40	1960 May p 88
gene pool, porphyria, dermatology, pink tooth disease, tracking porphyria	confirmed by Mossbauer-effect test of gravitational shift of solar
among Afrikaaners 1957 Mar p 133-142	radiation 1962 Mar p 12
bland against a service defe must ten appropriate at obition	test proposed radio echoes from Mercury or Venus 1965 Mar p 56
blood groups, genetic arit, inutation, consunguinty, evolution,	test proposed radio echoes from Mercury or Venus 1965 Mar p 30
blood groups, genetic drift, mutation, consanguinity, evolution, population genetics, Parma Valley, Italy 1969 Aug p 30-37	solar oblateness and Mercury's orbit 1967 Mar p 48
population genetics, Parma Valley, Italy 1969 Aug p 30-37	solar oblateness and Mercury's orbit 1967 Mar p 48 solar deflection of quasar signal 1970 Aug p 44
population genetics, Parma Valley, Italy 1969 Aug p 30-37 evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98-107 [1172]	solar oblateness and Mercury's orbit 1967 Mar p 48 solar deflection of quasar signal 1970 Aug p 44 reaffirmed by clock (cesum) paradox experiment 1972 Sept p 67
population genetics, Parma Valley, Italy 1969 Aug p 30-37 evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98-107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA	solar oblateness and Mercury's orbit 1967 Mar p 48 solar deflection of quasar signal 1970 Aug p 44 reaffirmed by clock (cesium) paradox experiment 1972 Sept p 67 generator control, automatic control, computer technology, electric power
population genetics, Parma Valley, Italy 1969 Aug p 30-37 evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98-107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80-94 [1074]	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control 1974 Nov p 34-44
population genetics, Parma Valley, Italy 1969 Aug p 30–37 evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98–107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80–94 [1074] gene recombination, 1951 Cold Spring Harbor conference	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines,
population genetics, Parma Valley, Italy evolution, mutation, genetic load electrophoresis, population genetics, heterozygosity 1970 Mar p 98-107 [1172] gene-protein colinearity, protein structure, amino-acid sequence, DNA structure, mutation, gene mapping, base 1967 May p 80-94 [1074] gene recombination, 1951 Cold Spring Harbor conference 1951 Oct p 22-25	solar oblateness and Mercury's orbit solar deflection of quasar signal reaffirmed by clock (cesium) paradox experiment generator control, automatic control, computer technology, electric power generation, power system control genesis, cosmology, universe expansion, Olber's paradox world lines, curvature of space, red shift galactic evolution, evolutionary
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DNA, poliomyelitis virus, protein synthesis,	RNA, virus multiplication,	genetic load, evolution, gene pool, mutation, electrophoresis, pop genetics, heterozygosity 1970 Mar p 98-1	ulation 07 [1172]
virus structure	1975 May p 24-31	g	uly p 66
recombinant DNA	1960 July p 82 1963 Jan p 61	genetic mosaic, chromosomal anomalies, gynandromorphism, ch	
coding specificity of sRNA	1963 Aug. p 49	organisms with tissue cells of different genes 1960 May p	118-130
DNA codons universal DNA, codon has three nucleotides	1964 Mar p 54	Barr body, sex differences, chromosome, cytology, Klinefelter's	S
streptomycin	1964 July p 44	syndrome, Turner's syndrome, chromosomal anomalies, sex	
GUU for valine	1964 Sept p 82	differences in tissue cells 1963 July p 54	
nonsense-codon punctuation	1965 Aug p 43	fruit fly, gene loci, genetics of behavior, insect behavior, mutan	
amino acid-codon structural fit	1966 June p 56	1973 Dec p 24-	ov p 70
gene-protein relation	1966 July p 50		Apr p 50
uniformity	1967 Apr p 48 1968 Apr p 44		eb p 67
UGA means stop	1969 Nov p 58	genetic traits, curiosity, rhesus monkeys, problem solving, anima	
enetic code confirmation, virus R17 genetic convergence, continental drift, speciat		behavior 1954 Feb	
radiation, Gondwanaland, Laurasia, mar	nmalian evolution.	genetic transduction, carcinogenesis, polyoma virus, recombinant	DNA,
supercontinent breakup and animal diver	rsification	virus disease, 'temperate' infection, viral induced malignanc	}
•	1969 Mar p 54-64 [877]	1960 Nov p 6	
genetic defect, Down's syndrome, chromoson	nal anomalies, Klinefelter's	genetic variation, influenza virus immunization, chick-embryo cu	
syndrome, trisomy 21, meiosis, mitosis, g	ene translocation,	hemagglutination, vaccine, difficulty in securing flu immunii 1953 Apr	
nondisjunction, afflictions associated wit	n abnormal chromosome	camouflage, evolution, melanism, moths, speciation, air polluti	-
complement genetic disease, neurospora, mutation, natura	1961 Nov p 66–76 [150]	population genetics, mutation, evolution observed	,011,
Mendelian inheritance, tryptophan-niaci	n relation, one gene-one	1959 Mar p 48	-53 [842]
enzyme hypothesis, selection for defect	1948 Sept p 30-39 [1]	anthropology, human evolution, steatopygia, climate, human	
mutation, teratogenesis, studied for clues to		migration, race, population, ancient migration and human d	iversity
	1950 June p 16-19	1960 Sept p 112-	127 [604]
sensory perception, inherited sense defects	1952 May p 64-70 [406]	apes, fossil primates, human evolution, population genetics	102 (474)
erothrocyte, sickle cell disease gene mutati	on, single gene-single	1972 Jan p 94	
aminoacid deletion	1958 Jan. p 68–74	gene mutation, natural selection, polymorphism, mollusk shell biological diversity, discontinuous variation	5,
congenital anomalies, hemophilia, epidemi Victoria's descendants	1965 Aug. p 88–95	1975 Aug p 50–	60 [1326]
ateliosis, midgets, pituitary insufficiency, d		cat color, human migration, gene mutation, population genetic	
anomalies, consanguinity, growth hormo	one deficiency,	maps, Hardy-Weinberg equilibrium 1977 Nov p 100-1	
panhypopituitarism, General Tom Thur	nb 1967 July p 102-110	genetics, corn, teosinte, tripsacum, pod corn, popcorn, hybrid cel	
heredity, porphyria, metabolic disease, Ge	orge III	World archeology, plant genetic experiment and archeologic	
	1969 July p 38–46 [1149]	point to pool corn as wild ancester of maise 1950 July p 2	
behavior, encephalitis, hyperactive child, t		bacteriophage, reproduction, tracer experiments, DNA, protein 1953 May	
possibly innate disease syndrome chromosome, gene mapping, autosomes, c	1970 Apr p 94–98 [527] hromosomal anomalies	Lysenko, potato virus, virus disease, vernalization, agronomy,	
emoniosome, gene mapping, autosomes, e	1971 Apr p 104–113 [1220]	Lysenko affair 1962 Nov	
amniocentesis, enzyme deficiency, prenata			Dec p 62
hemophilia, Down's syndrome, Tay-Sac	chs disease, chromosomal	see also plant genetics, population genetics and the like, muta	tion,
anomalies	1971 Nov p 34–42 [1234]	reproduction	
enzyme deficiency, milk sugar, lactose tole problem	1972 Oct. p 70–78 [1259]	genetics of behavior, fruit fly, gene loci, insect behavior, genetic in mutants 1973 Dec p 24-	
enzyme deficiency, fat metabolism, amnic		genocide, cultural anthropology, racial discrimination, Tasmania	<i>31</i> {1203] ms
lipids, lipid storage diseases, 10 lipid st		Yumbri, Yamana, vanishing primitive cultures 1957 May	p 39-45
	1973 Aug p 88-97	Aleuts, Eskimo, Aleutian Islands, Aleuts as 'Southern Eskimos	;
color blindness, cone cells, fovea, retinal i		1958 Nov p	
pigments	1975 Mar p 64-74 [1317]	racial discrimination, Amerindian, cultural assimilation, civil r	
chemotherapy, cyanate, anemia, hemoglo disease	1975 Apr p 44–50 [1319]	persisting identity of Amerindians 1960 Feb genome size, DNA repeat segments, evolution, sDNA, DNA-RN	p 37–45
liposome package treatment of lysosomal		hybridization 1970 Apr p 24	IA 31 [1172]
genetic drift, Dunkers, endogamous group,	ear lobes, blood typing, 'hitch-	genotype, phenotype, gene expression, mutation 1949 Oct	
hiker's' thumb	1953 Aug. p 76-81 [1062]	Lysenkoism, Lamarck, acquired characteristics, evolution, phe	notype,
blood typing, Judaism, racial discriminat		mutation ostrich calluses, speciation, religion, orthodoxy,	
social evolution population genetics, J	ewish community of Rome 1957 Mar p 118–128	Darwinism, experiments in acquired characteristics	
blood groups, mutation consanguinity, g	ene pool evolution	1953 Dec geochemical cycle, sea-floor spreading volcanoes rain, sea water	p 92–99
population genetics, Parma Valley, Ital	ly 1969 Aug. p 30–37	composition, salinity, carbonate, hydrologic cycle, why the s	ea ic colt
human population race, population gene	etics, serum protein analysis	1970 Nov p 104_	115 [839]
Monoto 11 1 cc	1974 Sept p 80-89	atmosphere, Earth crust, hydrologic cycle, lithospheric cycle	-
genetic engineering, cell differentiation nu- somatic cell nucleus, gene complement	cleus transplantation, clone,	1974 June p 72	-79 [414]
somatic cen nacicus, gene complement	1968 Dec p 24-35 [1128]	geochemistry, volcanoes, geophysics, their physics, chemistry, distribution and role in geological processes 1951 Nov	
frog eggs gene expression, hemoglobin, i	mRNA, RNA molecule	geochronology, geology, seismology, Earth science, science Earth	p 45–52
	1976 Aug p 60-71 [1343]	Earn mantle, ocean floor, geology 1900-1950 1950 Sept	n 26 20
algae, bacteria, legumes nitrogen fixatio	n nitrogenase, Haber process	fission-track dating, glass age, meteorite age, mineral age, potter	P 30-33
rhizobium legumes symbiosis, nitrogifixation		1976 Dec p	114-122
passenger virus	1977 Mar p 68-81 1967 Feb p 57	geochionometry, coral, dailing by coral orough tinge 1042 y	f 70
'new eugenics'	1969 July p 50	geographical distribution, birds speciation, ornithology, behavior adaptation, bird migration adaptation, provinciality of bird.	al
rabbit hemoglobin in frog cell	1071 1700 70 40	1057 11.	110 100
see also gene manipulation gene splicin genetic exchange, bacteriophage sexual re	g, recombinant DNA	head manuferrus, reast-action principle natural history life - 1	110-128 Norl of
	1948 Nov p 46–51	Pierre-Louis Moreau de Maupertuis 1955 Oct p	100-110
	12-04 d 101 b 40-31	P	

artificial satellite, Farth, orbital motion, equatorial bulge, shape of th	in British West Indies 1951 Oct p. 38
Farth, gravitation anomalies, Vening-Meinesz apparatus, Larth's	[23] geothermal power, Earth heat, electric power generation 1951 Oct p 38
gravity 1955 Sent in 164 to	1972 Ian n 70_77 (898)
pear-shaped longitudes, elliptical latitudes 1961 New 2	2) New Zealand installation 1957 Dec. p. 62
geold: pear-shaped, Vanguard satellite measurements 1950 Mar.	so — the state of
geological record, chloroplast, oxygen cycle, photosynthesis, hosphare	phototropism, touch orientation 1955 Feb p 100-106 germ-free environment, dental research, immune response, surgical
aerone metabolism, ozone, oxidation-reduction reactions, oxygen-	1501.1107
carbon balance 1970 Sept p 110-123 [119	germ theory, immunity, variable host, infection, germ-free animals
geology, seismology, Earth science, science, Earth core, Larth mantle, geochronology, ocean floor, geology 1900-1950 1950 Sept p 36-	1955 May p. 31–35
continental shelf, continental terrace, onlap process, offlap process	the state of the sea of the sections
1955 Mar n 62-86 (80	SI permanium relicitus absociation and 1952 Feb p 38
evolution, science history, Lyell, Charles Lyell, biography	charle trade days of solid-state electronics 1048 Sept. p. 52-55
1959 Aug p 98-106 [84	germanium crystal, junction transistor, 'doping', triode
tectonic processes, mathematical model, scaling block fault, geosyncline, experimental geology 1961 Feb p. 96-10	1952 July p 28-32
geosyncline, experimental geology 1961 Feb p 96-10 Antarctica, glaciation, seismology, seismic mapping, Antarctic land	y the second of
mass, part continent-part archipelago 1962 Sept. p. 151-16	chemical industry, recovering from war 1949 June p 28 germination, plant hormones, flowering, photoperiodicity, phototropism
Antarctica, fossil fauna, fossil flora, paleontology, Glossopteris, coal,	1949 May n 40-43
continental drift evidence 1962 Sept. p. 168-184 1863	adaptation, seed dispersal, dormancy 1959 Apr p 75-84
minerals, fluid inclusions, Earth history, ancient fluids in crystals	plant growth, phytochrome, photoperiodicity, pigments, pigment,
1962 Oct p 38-47 [854] geomagnetic reversals, magnetic field, volcanic rocks, paleomagnetism.	the state of the s
sea-floor spreading, reversals of Larth's magnetic field	seed, sprout after 800 year 1951 Nov p 34 seed, artic lupine after 10 00 years 1967 Dec p 55
1967 Feb p 44_54	gerontology, aging, cell physiology, life expectancy, manifestations of
geomagnetic storms, Sun, solar flares, ionospheric storms, aurora,	aging 1962 Jan p 100-110
sunspots 1951 Dec p 17-21	
geomagnetism, permanent magnets, electromagnetism, Blackett hypothesis, Elsasser-Bullard hypothesis, theories on origin of	health guidelines 1952 Aug p 32
terrestrial magnetism 1950 June p 20-24	gerry mander, reapportionment, redistricting, elections, representative government, computer applications 1965 Nov p 20-27
Earth, remanent magnetism, wandering poles, magnetic reversals,	Gestalt psychology, retina, vision, visual perception, learning, stabilized
Earth's magnetism 1955 Sept p 1\$2–162	retinal images, evidence for perceptual theories
geophysics, electromagnetism, magnetohydrodynamics, convection	1961 June p 72–78 [466]
currents, Earth core, origin of terrestial magnetism 1958 May p 44-48	visual perception, moon illusion, apparent distance theory, explanation of a familiar illusion 1962 July p 120–130 [462]
artificial satellite, solar particles, cosmic radiation telemetry, Van	problem solving, insight, fixation, the 'aha' reaction
Allen belts, radiation belts, space exploration, mapping of radiation	1963 Apr p 118–128 (4/6)
belts by Explorer satellites 1959 Mar p 39-47 [248]	ghetto, racial discrimination, unemployment, urban riots, public opinion,
cosmic radiation, solar particles, galactic magnetism galactic accelerator theory 1960 June p 64-71	social class, American Negro, 'inffraff theory' versus 'blocked- opportunity' theory 1968 Aug p 15-21 [638]
accelerator theory 1960 June p 64-71 magnetometer, natural resources, mining, mineral prospecting, aerial	G I, bill, for Korea veterans 1951 Sept p 48
prospecting 1961 June p 151–162	giant atoms, 'as big as bacteria' 1976 Feb p 548
ocean floor, magnetometer, magnetic reversals, patterned magnetic	giant aton, squid, cephalopods, nerve impulse 1951 Apr p 64-69
field variations in the ocean floor 1961 Oct p 146-156 artificial satellite, Lorentz force, magnetosphere, solar radiation, Van	squid, nerve impulse, sodium pump, nerve cells, 'voltage clamp' technique 1958 Dec p 83-90
Allen belts, radiation belts, aurora, physics of Van Allen belts	giant cells, Acetabularia, mermaid's wineglass, cell nucleus, cytoplasm,
1963 May p 84–96	algae, grant cells in study of nucleus-cytoplasm interaction
artificial satellite, solar wind, magnetosphere, aurora, magnetometer,	ly66 Nov p 118-124 [1057] giant molecules, mathematical model, computer modeling cytochrome
orbital motion 1905 Mar p 38-65 aurora borealis, solar radiation, ionosphere, magnetosphere, solar	helix myoglobin hemoglobin molecular modeling, DNA
wind physics of the aurora 1965 Dec. p. 54–62	1966 June p 42-52 [1043]
comet, magnetic reversals, tektites, meteorites, meteoritic impacts	giant star, Betelgeuse, photographic close-up 1975 Feb p 42
1967 July p 32–38	giberellin, agronomy, auxins, plant growth, oak, function of plant growth hormone 1957 Apr p 125-134 [11]
plasma, solar radiation, ionosphere, Earth magnetic field, barium clouds, magnetosphere, electric field, artificial plasma clouds from	auxing plant growth cytokining dormin plant hormones
rool etc 1908 NOV p ou-92	1968 July p 75-81 [1111]
geometry, mathematics, topology, quinary system, decimal system,	plant growth hormone 1956 Oct p 72 gift giving, human behavior, psychological implications
tessellation, knots, primitive mathematics 1948 Dec p 44-49 intuition, foundations of mathematics, Hans Hahn on geometry and	1967 Oct p 62
1934 Apr p 64-91	Gigantopithecus, Australopithecus, human evolution, hominid, pongids
the Fuchdean geometry, curved line, reach and	1970 Jan p 76-85 gill, lung, oxygen transfer, carbon dioxide, gas exchange, water breathing
	by mammals, breathing animal experiments in water-breathing
mathematics, topology, non-Euclidian geometry, conic sections, history	1968 Aug p 66–74 [1123]
and current uses of geothern's	counter current exchange, rete mirabile, heat conservation, physiology, swim bladder, kidney, physics of a physiological invention
distribution and role in geological processes 1951 Nov p 45-52	1957 Apr p ⁹⁶
geomagnetism, electromagnetism, magnetonydrouynamies, e	ginkgo, city trees, pollution effects, tree cloning, ailanthus, London plane,
currents, Earth core, origin of terrestial magnetic 1958 May p 44-48	Norway maple 1976 Nov p 110-118 giraffe, animal husbandry, antelope, elephant, buffalo, rhinoceros,
geosyncline, geology, tectonic processes, mathematical model, scaling,	hippopotamus wildlife husbandry in Africa 1960 Nov p 123-134
geosyncline, geology, tectonic processes, maintaintenance 1961 Feb p 96–106 block fault, experimental geology 1961 Feb p 96–106	graffe respiration, comparative physiology, blood pressure, extravascular
continental evolution, mountain formation, plate tectors, 30-38 [899]	pressure, breathing 1974 Nov p 96–105 [1307] Girard grid, spectroscopy, Fraunhofer lines, prism, light, Fourier analysis.
sedimentary rock, Apartmention, energy resources, fission fuels,	diffraction grating, interferometry 1968 Sept p 72–82
power, fossil fuel, fusion fuels, solar energy, tidal energy 1971 Sept p 60-70 [663]	
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glaciation, orbital motion, Earth, eccentricities of motion, Milankovitch	gliding birds, bird flight, soaring, vultures, thermal cells, lift phenomena 1973 Dec p 102-109
forecast, correlating glacial and sidereal time tables 1948 Oct p 40-45	globular cluster stars, Milky Way, nebulae, spiral arms, dust clouds, galactic center, seeing a galaxy from the inside 1950 Feb p 30-39
hot springs, adaptation, high temperature, low temperature 1949 Feb p 46–49	Clouds of Magellan, galactic center, nebulae, Southern sky, Eta Carina,
pollen chronology, micropaleontology, living records of the ice age 1949 May p 48-51 [834]	astronomical riches of the southern sky 1952 July p 46-57 dwarf stars, H-R diagram, spectroscopy, stellar evolution, subdwarf
paleontology, natural history, Agassiz, Louis Agassiz, fostering of science in America 1949 July p 48-51	stars bluer because poorer in heavy elements 1961 June p 111-120 stellar evolution, Red Giant stars, stellar modeling, main-sequence
continental uplift, a theory of glaciation 1952 Aug p 57–59	stars, H-R diagram, stellar anatomy, age of cluster stars 1970 July p 26-39
Earth, Antarctic glacier, climate, sea level, hydrologic cycle 1955 Sept p 84-92 [809]	black hole, binary stars, galactic energetics, neutron stars, stellar
oxygen isotopes, temperature measurement, foraminifera, abyssal sediments, paleontology, climatic change, measurement of ancient	evolution, X-ray stars, astronomy satellites, 'bursters' 1977 Oct p 42-55 [385]
temperatures 1958 Feb p 54-63 climatic change, solar radiation, solar evolution and terrestrial climate	globulin, kınıns, peptides, kallıdın, venom, inflammation, bradykının, local hormones, production and distribution
1958 June p 85–92 [835]	Glomar Challenger, deep-sea drilling expeditions 1962 Aug p 111–118 [132] 1970 Aug p 45
ocean floor, sea level, continental uplift, sea level variations 1960 May p 70-79	findings 1972 June p 51
plant migration, oceanography, New World archeology, animal migration, Bering land bridge, continental shelf, Wisconsin	Glomar Challenger findings, evaporite minerals, fossil record, Miocene desiccation, salt, Mediterranean as desert 1972 Dec p 26-36 [904]
glaciation, animal-plant migration, Asia-North America 1962 Jan p 112–123	glomerulus, kıdney, counter-current exchange, urine, nephron, osmosis, anatomy and physiology of the kıdney 1953 Jan p 40-48 [37]
Antarctica, Antarctic continental glacier, ice, stratigraphy, volume of ice in glaciers ecological implications 1962 Sept p 132–146 [861]	glory, light diffraction, optics, rainbow 1974 July p 60–73 Glossopteris, Antarctica, fossil fauna, fossil flora, geology, paleontology,
Antarctica, geology, seismology, seismic mapping, Antarctic land mass, part continent-part archipelago 1962 Sept p 151–166	coal, continental drift evidence 1962 Sept p 168–184 [863] continental drift, glaciation, Gondwanaland, Laurasia,
fossil record, species extinction, natural selection, 'catastrophism',	paleomagnetism, sea-floor spreading, supercontinents, plate tectonics, continental drift confirmed 1968 Apr p 52-64 [874]
evolution, Infra-Cambrian Ice Age, fossil record, continental drift,	glow worm, bioluminescence, firefly, abyssal fish, luciferase, 'cold light'
paleomagnetism 1964 Aug p 28–36 continental drift, Gondwanaland, Laurasia, paleomagnetism,	1948 May p 46-49 glucocorticoids, ACTH, adrenal hormones, pituitary hormones, stress
Glossopteris, sea-floor spreading, supercontinents, plate tectonics, continental drift confirmed 1968 Apr p 52-64 [874]	1971 Jan p 26-31 [532] glucogenesis, ATP, chloroplast, mitochondrion, photosynthesis, cell
continental shelf, ocean, shelf sediments, marine geology 1969 Sept p 106-122 [882]	metabolism, citric-acid cycle, glycolysis, oxidative phosphorylation, cytology, cellular transformation of energy 1961 Sept p 62–73 [91]
Ice Age hunters, mammoths, Mousterian assemblages, Ukraine 1974 June p 96–105 [685]	ACTH, ATP, glycolysis, hormone, epinephrine, cell metabolism, cyclic AMP, activation of cyclic AMP by hormones
glaciation since Ice Age, climate, mountain glaciers, sea-ice fluctuations, glacier fluctuations 1970 June p 100-110	1972 Aug p 97–105 [1256] glue, see adhesive
glacier fluctuations, climate, glaciation since Ice Age, mountain glaciers, sea-ice fluctuations 1970 June p 100-110	glycocalyx, bacterial-cell surface, bacterial infection, infective specificity, how bacteria stick 1978 Jan p 86-95 [1379]
glass, synthetic fiber, rayon, nylon, synthetic macromolecules, cellulose, man-made textile fibers 1951 July p 37-45	glycolysis, cytology, energy transformation, ATP, mitochondrion, citric- acid cycle, oxidative phosphorylation, membrane, energy
Egyptian glass, glassmakers, Roman glass, faience, chemical and	transformation in the cell 1960 May p 102–114 ATP, chloroplast, mutochondrion, photosynthesis, cell metabolism,
metals, materials technology, ceramics, polymers, chemical band,	glucogenesis, citric-acid cycle, oxidative phosphorylation, cytology,
composite materials, atom, elements, introduction to single-topic issue on materials 1967 Sept p 68-79	cellular transformation of energy 1961 Sept p 62-73 [91] ATP, mitochondrion, cell membrane, enzymes, oxidative
amorphous solid, materials technology, supercooling, crystal structure, geometry of glass, two-phase glasses 1967 Sept p 126-136	phosphorylation, cell metabolism, mitochondrial membrane 1968 Feb p 32-39 [1101]
architecture, sunlight, lighting, solar radiation, building construction 1968 Sept p 190-202	ATP, muscle, aerobic metabolism, oxygen debt, lactic acid formation, aerobic metabolism, anaerobic metabolism, energy mechanisms in
amorphous semiconductors, switching, memory, threshold switch, memory switch 1969 Nov p 30-41	muscle 1972 Mar p 84-91 [1244] ACTH, ATP, glucogenesis, hormone, epinephrine, cell metabolism,
lens aberrations, optics, photographic lenses 1976 Aug p 72–83 glass age, fission-track dating, geochronology, meteorite age, mineral age,	cyclic AMP, activation of cyclic AMP by hormones 1972 Aug p 97-105 [1256]
pottery age, radioactive decay, uranium fission 1976 Dec p 114-122	glycopeptides, bacterial cell, cell wall, bacterial metabolism, penicillin, polysacchandes, membrane 1969 May p 92-98
glass electrode, pH, galvanic cell, hydrogen ions, acidity 1951 Jan p 40-43	glycoprotein synthesis, Golgi apparatus, goblet cells, mucus, carbohydrate, saccules 1969 Feb p 100-107 [1134]
glass fiber, materials technology, optical glass, ceramics, amorphous solid, properties of glass as 'undercooled liquid' 1961 Jan p 92-104	glycoproteins, blood plasma, collagen, cell-surface antigens, interferon,
materials technology, synthetic fiber, composite materials, plastics, properties of 'two-phase' materials 1962 Jan p 124-134	Gnathostomulida, new animal phylum established 1969 Apr p 52
glass fiber cables, digital transmission, diode laser, fiber optics, light- emitting diode, light-wave communication, pulse-code modulation,	Godel's proof, mathematics, logic, paradox, philosophy of science,
lightwate telephone 1977 Aug p 40-48 [373] glassmakers, Egyptian glass, glass, Roman glass, faience, chemical and	antinomy, paradox, mathematical logic, logic, barber paradox
physical analysis of ancient glass 1963 Nov p 120-130 glaucoma, vision, indectomy, blindness, human eye	undecidable questions Grelling's paradox, Epimenides' paradox, Zeno's paradox, paradox and foundations of logic
1959 Aug p 110-117 ghal cells, learning theory, memory, neurones, RNA, brain, molecular	
	metalogic, mathematical logic, undecidable questions
meory of memory 1961 Dec. p. 62-70 11341	Gobi Desert, mountain formation, continental destructions
theory of memory 1961 Dec p 62-70 [134] glider, meteorology, wind, cloud, fee waves, soaring, esthetic exploitation of fee waves 1961 Mar p 124-134	metalogic, mathematical logic, undecidable questions

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goblet cells, glycoprotein synthesis. Golgi apparatus, mucus,
                                                                                       truth logic, philosophy, sentence, metalogic, mathematical proof,
       carbohydrate, viccules
                                                  1969 Feb p 100~107 [1134]
                                                                                          antimony of the liar, proof and truth
  golter, thyroid, metabolism control, thyroxin, pituitary gland, role of
                                                                                                                                           1969 June p 63-77
                                                                                       language organization, linguistics, speech errors, spoonerisms, syntactic
       thyroid in governing metabolism
                                                        1960 Mar p 119-129
                                                                                          rules
                                                                                                                                   1973 Dec p 110-117 [556]
    hypothyroidism, iodine deficiency, epidemiology, thyroid, iodized salt
                                                                                     grammatical relations, visual perception, bilingualism, dyslexia, eye
                                                   1971 June p 92-101 [1223]
                                                                                          movement, language, reading, perception of words
  gold, metallurgy, New World archeology, New World archeology, Old
       Copper culture, Peru, copper, lost-way casting, metalwork, pre-
                                                                                                                                      1972 July p 84-91 [545]
                                                                                    grana, photosynthesis, chloroplast, Hill reaction
                                                                                                                                          1953 Nov p 80-84
       Columbian, New World, 4,000 B C
                                                           1966 Apr. p 72-81
                                                                                    granite, sandstone, sand dune, weathering, turbidity currents,
  goldfish, brain metabolism, memory, protein synthesis, learning,
                                                                                         stratigraphy, sand origin and history from shape of grain
       conditioned behavior
                                                 1967 June p 115-122 [1077]
  Golgi apparatus, glycoprotein synthesis, goblet cells, mucus,
                                                                                                                                         1960 Apr p 94-110
                                                                                    granitization, Earth crust, mountain formation, isostasis, ocean basins,
       carbohydrate, saccules
                                                 1969 Feb p 100-107 [1134]
                                                                                         ocean floor, tectonic processes, comprehensive review of
  gonadal hormones, adrenal hormones, brain circuitry, hormone-sensitive
                                                                                         understanding (before acceptance of continental dnft)
       neurons, sex hormones, sexual behavior, sex differences, steroid
      hormones, action of hormones on nerve tissue
                                                                                                                                          1950 May p 32-41
                                                                                      Carth mantle
                                                                                                                                          1955 Apr p 77-82
                                                    1976 July p 48-58 [1341]
                                                                                    grape fermentation, wine, yeast, viticulture, climate, enzymes, chemical
 gonadotrophic hormones, pituitary gland, ACTH, metabolic hormones,
                                                                                        explanation of a good wine, role of climate
      growth hormone, endocrine system, the master gland
                                                                                                                                    1964 Aug p 46-56 [190]
                                                           1950 Oct p 18-22
                                                                                   graph theory, network analysis, nodes and branches, pipelines,
 Gondwanaland, continental drift, glaciation, Laurasia, paleomagnetism,
                                                                                                                                        1970 July p 94-103
                                                                                        powergrids, reliability analysis
      Glossopteris, sea-floor spreading, supercontinents, plate tectonics,
                                                                                   graphite-crystal structure, crystal growth, diamond-crystal structure,
      continental drift confirmed
                                                    1968 Apr p 52-64 [874]
                                                                                        synthetic diamonds, synthesis at low pressure 1975 Nov p 102-109
    continental drift, speciation, reptile evolution, radiation, genetic
                                                                                   grasses, agricultural economics, forage crops, agronomy, hay, legumes,
      convergence, Laurasia, mammalian evolution, supercontinent
                                                                                       In estock feed, ruminants, silage, Rhizobium bacteria
      breakup and animal diversification
                                                   1969 Mar p 54-64 [877]
                                                                                                                                         1976 Feb p 60-75
   mountain formation, continental drift, Himalaya formation, Indian-
                                                                                   grasshopper, nerve conduction, muscle contraction, biomechanics of leap
      Ocean formation, magnetization patterns, plate tectonics sea-floor
                                                                                                                                         1958 Jan p 30-35
                                                    1973 May p 62-72 [908]
                                                                                  grassland, ecology, fire, forestry, forest fire, role of fire in climax ecology
   hypothesis confirmed
                                                             1967 Feb p 58
                                                                                                                               1961 Apr p 150-160 [1099]
 gong language, African drum language, communication, drums, talking
                                                                                     animal migration, grazing animals, grazing ecosystem, savanna
      drums
                                                         1971 Dcc p 90-94
                                                                                       topography, Serengeti National Park, Tanzania
                                                            1976 June p 50
                                                                                                                                  1971 July p 86-93 [1228]
 gonorrhea, resurgent
 Gordion, archeological excavation, Phrygian civilization, Alexander, 700
                                                                                  gravimetry, bathymetry, sonar, ocean floor, continental shelf,
      BC, preclassical Greek link with East
                                                       1959 July p 100-109
                                                                                       sedimentary cores, Lamont Geophyscial Observatory
                                                                                                                                       1956 Dec p 83-94
 gorilla autopsy, poor zoo diet
                                                             1955 Dec p 56
 Gossamer Condor, aeronautics, man-powered flight
                                                                                  gravitation, matter, wave-particle duality, energy levels, electromagnetic
                                                             1977 Oct p 74
 Gothic arch, architectural engineering, roof, vault, Romanesque barrel
                                                                                      force, nuclear forces, field theory, fundamental research, quantum
      vault, Byzantine dome, building construction, vaulting technics
                                                                                      jumps, corpuscular streams, what is matter?
                                                                                                                                 1953 Sept p 52~57 [241]
                                                      1961 Nov p 144-154
                                                                                    galactic clusters, probability, universe, cosmology, Monte Carlo
Gothic cathedrals, optical model, architectural engineering. Bourges
                                                        1972 Nov p 90-99
                                                                                      method, distribution of galaxies as test of cosmologies
     cathedral, Chartres cathedral
                                                                                                                                    1956 Sept p 187-200
gout, arthritis, colchicine, metabolism, chemistry of gout
                                                                                   wave-particle duality, relativity theory, quantum mechanics, space time
                                                        1958 June p 73-81
                                                                                      continuum, uncertainty principle, PAM Dirac view of physics
                                                            1958 Aug p 50
   chemistry of gout
                                                                                                                                      1963 May p 45-53
povernment-business relations, economic development, Japan,
                                                                                                                                         1959 Apr p 68
     employment policy, investment, debt financing, Japan's economic
                                                                                   gravity waves and quanta
                                                                                gravitation anomalies, geoid, Earth, Vening-Meinesz apparatus, Earth's
                                                        1970 Mar p 31-37
     growth
                                                                                                                                  1955 Sept p 164 [812]
government employment, scientists reject
                                                            1948 Oct p 24
                                                                                     gravity
                                                                                gravitation effects, stellar evolution, tidal effects, contact binaries, binary
government regulation, housing, land use, population density,
                                                                                                                                     1968 June p 34-40
     shantytowns, taxation, urban planning, cities, control of land use
                                                                                     stars, stellar fission
                                                                                gravitational acceleration, Galileo's experiments, time keeping music as
                                                    1965 Sept p 150-160
                                                                                                                                    1975 June p 98-104
                                                           1975 Oct p 54
                                                                                     time measure
graffiti, prevention
                                                                                gravitational collapse, solar system, Sun, cosmology, dust cloud
graft rejection, skin transplants, immune response, biochemistry of 'self'
                                                                                    hypothesis, gravity, light pressure, thermonuclear reaction, genesis of
                                                       1957 Apr p 62-66
                                                                                                                                     1948 May p 35-45
  antigens, cell-surface antigens, histocompatability, immune response,
                                                                                    solar system
                                                                                  dust cloud hypothesis, binary stars, photophoresis, element abundance,
                                               1977 Oct p 96-107 [1369]
     H-2 antigens, HLA antigens
                                                                                                                               1952 Oct p 53-61 [833]
                                                           1965 Dec p 40
                                                                                    angular momentum, origin of the Earth
   thymectomy
grafting techniques, resource management, gene manipulation, forestry,
                                                                                  galactic evolution, barred galaxy, spiral galaxies, elliptical galaxies
                                                                                                                                  1956 Sept p 100-108
     Southern pine, tree farming, seed-orchard concept
                                                                                    evolution from taxonomy
                                                                                 dwarf stars, degenerate gas, white dwarfs, binary stars 'dying' stars
                                                     1971 Nov p 94-103
                                                                                                                                    1959 Jan p 46-53
grain, proteins, plant protein plant hybrids, agronomy, Triticale
                                                                                 radio galaxies, nonthermal emission, supernovae, synchrotron
                                                      1974 Aug p 72-80
grain boundaries, alloys, materials technology, metals, crystal structure,
                                                                                   radiation, intensity of galactic radio emission
                                                                                                                              1962 Mar p 41-49 [278]
     lattice defects, dislocations, electron 'gas', nature of metals
                                                                                gravity, stellar evolution, space time continuum, thermal pressure, singularity, gravitational radius, black hole 1967 Nov p 88-98
                                                     1967 Sept p 90-100
                                                                                   singularity, gravitational radius, black hole
grain combine, mechanical harvesting, cotton picker, agricultural
                                                                                 pulsar, white dwarfs, neutron stars, angular momentum, 'lighthouse'
     technology, tomato harvester, hay cuber, cherry picker
                                                                                                                                   1968 Oct p 25-35
                                                      1967 Aug p 50-59
                                                                                   model proposed
                                                                                Crab Nebula, neutron stars, pulsar, radio source, stellar evolution,
grain structure, wood, cellulose, lignin, cell structure 1953 Jan p 64-67
                                                                                                                                   1971 Jan p 48-60
  materials technology, metalliding, superplasticity, microduplex
                                                                                   angular momentum
                                                                                neutron stars, pulsar, stellar evolution, solid stars, white dwarfs,
     structure, thermomechanical processing, metals that can be formed
                                                                                                                                   1971 Feb p 24-31
                                                                                  ultradense matter
                                                     1969 Mar p 28-35
                                                                                interstellar matter, supernovae, shock waves, stellar formation, stellar
  diffraction, gemstones, opal colors, periodic structures, silica-sphere
                                                                                  evolution, birth of massive stars
                                                                                                                         1978 Apr p 110-118 [3005]
                                                      1976 Apr p 84-95
                                                                             gravitational constant, science history, Ectvos experiment, general
grammar, pidgin, linguistics, Creole, gullah, colonialism, evolution and
                                                                                  relativity, Edwos experiment confirmed
                                                                                                                                 1961 Dec p 84-94
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elaboration of colonial languages

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elaboration of colonial languages

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goblet cells, glycoprotem synthesis, Golgi apparatus, mucus,
                                                                                     truth, lagic, philosophy, sentence, metalogic, mathematical proof,
      carbohydrate, sacules
                                                1969 Leb r 100-107 111341
 golter, thyroid, metabolism control, thyroxin, pituitary gland, role of
                                                                                        antimony of the liar, proof and truth
                                                                                                                                         1969 June p 63-77
                                                                                     language organization, linguistics speech errors, spoonensms, syntactic
      thyroid in governing metabolism
                                                       1960 Mar p 119-129
   hypothyroidism, iodine deficiency, epidemiology, thyroid, iodized salt
                                                                                                                                 1973 Dec p 110-117 15561
                                                                                   grammatical relations, visual perception, bilingualism, dyslexia, eye
                                                 1971 June p 92-101 [1223]
                                                                                        movement, language, reading, perception of words
 gold, metallurey, New World archeology, New World archeology, Old
      Copper culture, Peru, copper, lost-wax casting, metalwork, pre-
                                                                                                                                    1972 July p 84-91 [545]
                                                                                   grana, photosynthesis, chloroplast, Hill reaction
      Columbian, New World, 4,000 B C
                                                                                                                                        1953 Nov p 80-84
                                                         1966 Apr p 72-81
                                                                                   granite, sandstone, sand dune, weathering, turbidity currents,
 goldfish, brain metabolism, memory, protein synthesis, learning
                                                                                        stratigraphy, sand origin and history from shape of grain
      conditioned behavior
                                                1967 June p 115-122 [1077]
                                                                                                                                       1960 Apr p 94-110
 Golgi apparatus, glycoprotein synthesis, goblet cells, mucus,
                                                                                  granitization. Earth crust, mountain formation, isostasis, ocean basins
      carbohydrate, saccules
                                                1969 Feb p 100-107 [1134]
                                                                                       ocean floor, tectonic processes, comprehensive review of
 gonadal hormones, adrenal hormones brain circuitry, hormone-sensitive
                                                                                       understanding (before acceptance of continental dult)
      neurons, sex hormones, sexual behavior, sex differences, steroid
                                                                                                                                        1950 May p 32-41
      hormones, action of hormones on nerve tissue
                                                                                     Earth mantle
                                                                                                                                        1955 Apr p 77-82
                                                   1976 July p 48-58 [1341]
                                                                                  grape fermentation, wine, yeast, viticulture, climate, enzymes, chemical
 gonadotrophic hormones, pituitary gland, ACTH, metabolic hormones,
                                                                                       explanation of a good wine, role of climate
      growth hormone, endocrine system, the master gland
                                                                                                                                  1964 Aug p 46-56 [190]
                                                         1950 Oct p 18-22
                                                                                  graph theory, network analysis, nodes and branches, pipelines,
 Gondwanaland, continental drift, glaciation, Laurasia, paleomagnetism,
                                                                                                                                       1970 July p 94-103
                                                                                       powergrids, reliability analysis
      Glossopteris, sea-floor spreading, supercontinents, plate tectonics,
                                                                                  graphite-crystal structure, crystal growth, diamond-crystal structure,
      continental drift confirmed
                                                   1968 Apr p 52-64 [874]
                                                                                      synthetic diamonds, synthesis at low pressure 1975 Nov p 102-109
   continental drift, speciation, reptile evolution, radiation, genetic
                                                                                  grasses, agricultural economics, forage crops, agronomy, hay, legumes
      convergence, Laurasia, mammilian evolution, supercontinent
                                                                                      livestock feed, ruminants, silage, Rhizobium bactena
     breakup and animal diversification
                                                   1969 Mar p 54-64 18771
                                                                                                                                       1976 Feb p 60-75
   mountain formation continental drift, Himalaya formation, Indian-
                                                                                 grasshopper, nerve conduction, muscle contraction, biomechanics of leap
     Ocean formation, magnetization patterns, plate tectonics, sea-floor
                                                                                                                                       1958 Jan p 30-35
     spreading
                                                   1973 May p 62-72 [908]
                                                                                 grassland, ecology, fire, forestry, forest fire, role of fire in climax ecology
   hypothesis confirmed
                                                                                                                              1961 Apr p 150-160 [1099]
                                                            1967 Teb p 58
gong language, African drum language, communication, drums, talking
                                                                                   animal migration, grazing animals, grazing ecosystem, savanna
     drums
                                                        1971 Dec p 90-94
                                                                                     topography, Serengeti National Park, Tanzania
                                                                                                                                1971 July p 86-93 [1228]
gonorrhea, resurgent
                                                            1976 June p 50
Gordion, archeological excavation, Phrygian civilization, Alexander, 700
                                                                                 gravimetry, bathymetry, sonar, ocean floor, continental shelf,
     BC, preclassical Greek link with East
                                                      1959 July p 100-109
                                                                                     sedimentary cores, Lamont Geophyscial Observatory
                                                                                                                                      1956 Dec p 83-94
gorilla autopsy, poor zoo diet
                                                            1955 Dec p 56
                                                                                gravitation, matter, wave-particle duality, energy levels, electromagnetic
Gossamer Condor, aeronautics, man-powered flight
                                                            1977 Oct p 74
                                                                                     force, nuclear forces, field theory, fundamental research, quantum
Gothic arch, architectural engineering, roof, vault, Romanesque barrel
     vault, Byzantine dome, building construction, vaulting technics
                                                                                     jumps, corpuscular streams, what is matter?
                                                                                                                               1953 Sept p 52-57 [241]
                                                     1961 Nov p 144-154
                                                                                  galactic clusters, probability, universe, cosmology, Monte Carlo
Gothic cathedrals, optical model, architectural engineering, Bourges
                                                                                     method, distribution of galaxies as test of cosmologies
     cathedral. Chartres cathedral
                                                       1972 Nov p 90-99
                                                                                                                                  1956 Sept p 187-200
gout, arthritis, colchicine, metabolism, chemistry of gout
                                                                                  wave-particle duality, relativity theory, quantum mechanics, space time
                                                        1958 June p 73-81
                                                                                    continuum, uncertainty principle, PAM Dirac view of physics
  chemistry of gout
                                                           1958 Aug p 50
                                                                                                                                    1963 May p 45-53
government-business relations, economic development, Japan,
                                                                                                                                        1959 Apr p 68
                                                                                  gravity waves and quanta
     employment policy, investment, debt financing Japan's economic
                                                                               gravitation anomalies, geoid, Earth, Vening-Meinesz apparatus, Earth's
                                                       1970 Mar p 31-37
     growth
                                                                                                                                 1955 Sept p 164 [812]
                                                           1948 Oct p 24
                                                                                    gravity
government employment, scientists reject
                                                                               gravitation effects, stellar evolution, tidal effects, contact binaries, binary
government regulation, housing, land use, population density,
                                                                                                                                    1968 June p 34-40
     shantytowns, taxation, urban planning, cities, control of land use
                                                                                    stars stellar fission
                                                                               gravitational acceleration, Galileo's experiments, time-keeping, music as
                                                    1965 Sept p 150-160
                                                                                                                                  1975 June p 98-104
                                                           1975 Oct p 54
                                                                                    time measure
graffiti, prevention
                                                                               gravitational collapse, solar system, Sun, cosmology, dust cloud
graft rejection, skin transplants, immune response, biochemistry of 'self'
                                                                                   hypothesis, gravity, light pressure, thermonuclear reaction, genesis of
                                                      1957 Apr p 62-66
                                                                                                                                   1948 May p 35-45
                                                                                   solar system
  antigens, cell-surface antigens, histocompatability, immune response,
                                                                                 dust cloud hypothesis, binary stars, photophoresis, element abundance
                                              1977 Oct p 96-107 [1369]
     H-2 antigens, HLA antigens
                                                                                                                              1952 Oct p 53-61 [833]
                                                          1965 Dec p 40
                                                                                   angular momentum origin of the Earth
  thymectomy
                                                                                 galactic evolution, barred galaxy, spiral galaxies, elliptical galaxies,
grafting techniques, resource management, gene manipulation forestry,
                                                                                                                                1956 Sept p 100-108
                                                                                   evolution from taxonomy
     Southern pine, tree farming, seed-orchard concept
                                                                                dwarf stars, degenerate gas, white dwarfs, binary stars, 'dying' stars
                                                    1971 Nov p 94-103
                                                                                                                                   1959 Jan p 46-53
grain, proteins, plant protein, plant hybrids, agronomy, Triticale
                                                                                                                 . - supernovae, synchrotron
                                                      1974 Aug p 72-80
grain boundaries, alloys, materials technology, metals, crystal structure,
                                                                                                                  to emission
                                                                                                                            1962 Mar p 41-49 [278]
     lattice defects, dislocations, electron 'gas', nature of metals
                                                                                gravity, stellar evolution space-time continuum, thermal pressure,
                                                    1967 Sept p 90-100
                                                                                                                                 1967 Nov p 88-98
                                                                                  singularity, gravitational radius, black hole
grain combine, mechanical harvesting, cotton picker, agricultural
                                                                                pulsar, white dwarfs, neutron stars, angular momentum, 'lighthouse'
     technology, tomato harvester, hay cuber, cherry picker
                                                                                                                                  1968 Oct p 25-35
                                                      1967 Aug p 50-59
                                                                                  model proposed
                                                                                Crab Nebula, neutron stars pulsar, radio source, stellar evolution,
grain structure, wood, cellulose, lignin, cell structure 1953 Jan p 64-67
                                                                                                                                  1971 Jan p
  materials technology, metalliding, superplasticity, microduplex
                                                                                  angular momentum
                                                                               neutron stars, pulsar, stellar evolution, solid stars, white dwarfs
    structure, thermomechanical processing, metals that can be formed
                                                                                                                                 1971 Feb p 24-31
                                                                                 ultradense matter
                                                     1969 Mar p 28-35
                                                                               interstellar matter, supernovae, shock waves, stellar formation, stellar
  diffraction, gemstones, opal colors, periodic structures, silica-sphere
                                                                                 evolution, birth of massive stars
                                                                                                                       1978 Apr p 110~118 [3005]
                                                     1976 Apr p 84-95
                                                                             gravitational constant, science history, Ectivos experiment, general
grammar, pidgin, linguistics, Creole, gullah, colonialism, evolution and
    packing
                                                                                                                                1961 Dec p 84-94
                                                                                 relativity. Ectvos experiment confirmed
                                                   1959 Feb p 124-134
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ammonia manufacture, biological nitrogen fixation, metallo-organic	hamster, tissue grafts, immune reaction, tolerance of grafts 1963 Jan p 118-127 [148]
algae, bacteria, legumes, nitrogen fixation, nitrogenase, genetic	hand, toolmakers, human evolution, hominid, evolution of the human
engineering, rhizobium, legumes, symbiosis, mtrogenase, biological	hand 1962 Dec p 56-62 [140] hand axes, human evolution, Olduvai Gorge, toolmakers, man-apes,
ntrogen fixation 1977 Mar p 68-81 habit reversal, evolution, intelligence, probability learning, intelligence	stone tools 1954 Jan p 66–71
compared in five animals 1965 Jan p 92–100 [490]	handedness, symmetry, natural and conventional 1948 Oct p 46-49
habitat selection, animal behavior, ecological adaptation, heredity,	auditory perception, brain hemispheres, cerebral dominance, musical
learning, field experiments with mice 1964 Oct p 109–116 [195]	illusions, hearing, illusions, perception, two-tone illusion
haboob, sand dune classification, dust storms, soil erosion	1975 Oct p 92-104 [566] Harappan civilization, Mohenjo-Daro, Indus valley, archeology, Sumer
1976 Oct p 108-114 sandstorms, haboobs in U S 1973 Jan p 46	1953 Nov p 42–48
Hacilar culture, Neolithic archeology, Turkey, 7000 B C	archeology, Indus valley, Mohenjo-Daro, floods as cause of demise
1961 Aug p 86–97	1966 May p 92–100
Hadrian's Wall, Britain, frontier life, Roman Britain, Vindolanda site	pre-Dravidian script deciphered 1969 Nov p 62 hardness, corundum, crystal structure, cubic boron nitride, diamond,
1977 Feb p 39-46 [692] hadron, neutron neutron diffraction, the neutron as nuclear particle and	materials technology, Mohs scale 1974 Aug p 62–70
as tool of physics 1951 Oct p 44-53	Harijans, class discrimination, untouchables, caste, Hinduism, India, civil
hadron jets, quark hypothesis supported 1976 Apr p 55	nghts 1965 Dec p 13–17
hadrons, high-energy photons, 'strong' force, photons as hadrons	harmonic functions, Brownian motion, probabilistic potential theory, potential theory 1969 Mar p 66-74
1971 July p 94-104 beta decay, bubble chamber experiments, high-energy physics, neutron	potential theory 1969 Mar p 66–74 harmonic oscillation, bridges, suspension bridges, aerodynamics
beam, particle accelerator, positron 1973 Aug p 30–38	1954 Nov p 60–71
dual-resonance model, high-energy physics, light-string theory, quark,	harmonic proportions, musical scale, tone ladder, Pythagorean doctrine,
strong interactions 1975 Feb p 61–67	music and mathematics, Kepler, vibrating string
charmonium, charmed quarks, high-energy physics, gauge theory,	1967 Dec p 92–103 harmonics, musical instruments, music, piano, harpsichord, physics of the
leptons, quark hypothesis, 'color' and 'flavor' in quarks 1975 Oct p 38-50	piano 1965 Dec p 88–99
heavy leptons, J particle, high-energy physics, quantum mechanics,	harmony, physics, string instruments, wind instruments, piano, voice,
quark hypothesis, intermediate vector bosons 1976 Jan p 44-54	musical scale, acoustics, agreeable melodies and physical laws
baryons, high-energy physics, leptons, mesons, quantum numbers, quark confinement, bag model, infrared-slavery model, string model	1948 July p 32–41 harpoon, cultural anthropology, Mesolithic era, Ishango man, African
1976 Nov p 48–60	culture 10,000 B C 1962 June p 105–116
charmed quarks, high-energy physics, quantum mechanics, quark,	harpsichord, musical instruments, music, piano, harmonics, physics of the
charm 1977 Oct p 56–70 [388]	piano 1965 Dec p 88–99
hagfish, cardiac function, comparative psychology, cyclosomes, knot- tying fish, hermaphrodite 1966 Feb p 82-90 [1035]	Harriot, 'English Galileo' 1975 June p 49 harvestman, Phalangida, daddy longlegs, Arachnida, animal behavior,
hahnium, element 105 synthesized 1970 June p 48	natural history 1962 Oct p 119–128 [137]
hailstones, ice crystals, hailstorms 1971 Apr p 96-103	Harvey, science history, blood circulation, life and work of William
hair, dermatoglyphics, skin, surface area, skin glands, thermoregulation,	Harvey 1952 June p 56–62
structure and function of human skin 1965 Feb p 56-66 [1003] bacteria, ectoparasites, skin, fungi, lice, human skin ecosystem	hash table, algorithms, computer language, computer programming, binary search trees 1977 Apr p 63–80
1969 Jan p 108–115 [1132]	Hauksbee, electric power, light, science history, life and work of Francis
Hale telescope, Palomar Observatory, Schmidt telescope, galactic survey,	Hauksbee 1953 Aug p 64-69
cosmology, 200-inch and 48-inch Palomar telescopes 1948 Aug p 12-17	Havasupai, Amerindian, Cohonina, Paleolithic culture, prehistoric man in
Palomar Observatory, cosmology, red shift, stellar populations,	the Grand Canyon 1958 Feb p 97–102 hay, agricultural economics, forage crops, grasses, agronomy, legumes,
interstellar matter, galactic evolution, first yield from 200 inch	livestock feed, ruminants, silage, Rhizobium bacteria
telescope 1952 Feb p 43–51	1976 Feb p 60–75
Hales, plants, root pressure, sap circulation, shoot tension, science history, Stephen Hales, founder of biophysics 1952 Oct p 78-82	hay cuber, mechanical harvesting, cotton picker, agricultural technology, tomato harvester, cherry picker, grain combine 1967 Aug. p 50-59
Hall effect, Etungshausen effect, Nernst effect, Right-Leduc effect,	health, human nutrition, poverty, hunger, population growth, developing
galvanomagnetism, thermomagnetism, science history, industrial	countries, world poverty 1968 Nov p 27-35
technology, technological applications of 19th c discoveries 1961 Dec p 124-136	health care, see medical care
Halley's comet, comet, solar radiation, physics of comet tails	health economics, see medical economics health in Liberia, DDT reduces malaria incidence 1948 Dec p 27
1958 Oct p 44–50	health insurance, medical specialization, medical economics, medical
Halloween, Druid holiday, anthropology 1951 Oct p 62-66 hallucination, electroencephalography, perceptual isolation, boredom,	care, need for organization of medical technology in US
neuropsychology, sensory deprivation, effect of exposure to	1963 Aug p 19-27 public health, morbidity, medical care, health statistics, mortality rates,
monotonous environment 1957 Jan p 52-56 [430]	U.S. National Health Survey 1966 June p. 21–29
central nervous system, drug induced imagery, perceptual illusions,	medical care, medicine, physical incapacitation, morbidity, mortality
perceptual-release theory 1977 Oct p 132–140 [579] hallucinogenics, LSD adverse effects 1966 Feb p 54	rates, hospital care, ambulatory care, triage, introduction to single- topic issue on medical care 1973 Sept. p. 22–33
hallucinogens, alkaloids, mental health, drug addiction, consciousness	medical economics, hospital care, medical care, third-party payment
alteration, LSD, psychosis, psilocybin, mescaline, effects of LSD	1973 Sept. p. 151–159
1964 Apr p 29-37 [483] halobacteria, bacteria, cell membrane, photosynthesis, rhodopsin, salt-	Health Maintenance Organization, see H M O
loving bacteria 1976 June p 38-46 [1340]	health research, see medical research health statistics, public health, morbidity, medical care, mortality rates,
halos, Sun dogs, ice crystals, optics, atmospheric halos	nealth insurance, U.S. National Health Survey 1966 June p. 21–20
1978 Apr p 144–152 [3006] Hamilton, quaternions, complex numbers, non-commutative algebra,	medical care, medical-cost control, national health insurance
mathematics, high-energy physics, life and work of William Rowan	'uncontrollable' expenditures US Federal expenditure on medical
Hamilton 1954 May p. 82_87	hearing, deafness, ear, directional orientation, cochlea
Hammurabi, Sumer, law code, Lipit Ishtar, cuneiform script, earliest law code 1865 B C 1948, June p. 44-47	1957 Aug = 66 70 144
eode 1865 B C 1948 June p 44-47	ristory organs, ommatidia neuroreceptor cells cytology, taste
	buds, now cells receive stimuli 1961 Sept p 222–238 [99]

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ground motion, earthquake dynamics, earthquake prediction, seismic	growth inhibitors, plant community at a t
Waves, strong-motion seismology 1977 than no 69 79 to 5	growth inhibitors, plant communities, plant hormones, plant chemicals antagonistic to other plants 1949 Mar. p. 48-51
ground squirees, behavioral adaptation. Mouve desert, animal behavior	growth rate, child development, Denver longitudinal study, changes in
kidney function, thermoregulation, desert adaptation, desert	proportion 1002 O-1 - 65 70 more
mammais adaptations to heat and aridity 1964. New p. 107. 44	1205 Oct p 05-10 [1005]
ground water, artesian well, piezometric surface, water table, water cycle	1 Tyong, leading reproduction, asexual reproduction, cen
resource management, runoff, ground water in water-resource	tunahara anna hat
management 1950 No. p. 14-10 1815	guano, Peru Current, anchovy, seagulls, El Niño, upwelling
irrigation, ariesian well, agricultural technology. S thara desert water	to the state of th
resource management, land reclamation, intercalary water 'fossil'	Guatamala anthronologi anteriologi anterio
water, making desert fertile 1966 May p. 21. 2	Guatemala, anthropology, central-place theory, market networks
irrigation, tunneling, aqueducts, Iran, underground system, 3,00 years	
old, still in use 1968 Apr. p. 94-10.	guillemot, evolution, speciation, skua, melanism, ornithology, avian
atmospheric circulation, hydrology, water cycle, 'aerological	751 U VAIVE U 1251 U 127-137
accelerator 1973 Apr p 46-61 [907	guilt, anxiety, polygraph, lying, psychosomatic illness, breathing, pulse
center-pivot irrigation, irrigation agricultural technology	The state of the state of the state of
	1967 Jan p 25–31 [503]
1976 June p 90-99 reservoir recharging, water resource management, water cycle	and the state of t
	spreading, continental drift, sea-floor spreading opens new ocean
1977 May p 21-27 [924]	
group behavior, interpersonal relationships, social psychology, conference	
1955 Mar p 31–35	The state of the s
aggression, pecking order, social psychology, experiments in group behavior 1956 Nov. p. 54-58 11541	1955 Jan p 30-35 [810]
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social psychology, conformity, human subjects, group pressure,	gullali, pidgin, linguistics, Creole, colonialism, grammar, evolution and
experiments in susceptibility to group pressure 1961 Dec p 45-51	
crowding, rats, population density, comparative psychology, social	gulls, courtship display, animal behavior, releaser stimulus, displacement
pathology of crowding 1962 Feb p 139-148 [506]	
education, poverty, rural poverty, community action emotional illness,	ethology, social behavior, comparative psychology, animal behavior
social psychology, study of community regeneration	evolution, reconstructing gull family tree from behavior of species
1965 May p 21–27 [634]	
poverty, community action, culture of poverty, subculture of Western	animal behavior, speciation, evolution, sexual behavior, innate
market societies 1966 Oct p 19-25 [631]	behavior, ethology, species discrimination, Larus, eye rings
social discrimination, discrimination, child development, 'in vs out'	1967 Oct p 94-102 [1084]
group discrimination 1970 Nov p 96–102 [530]	Gum Nebula, ionized-hydrogen cloud, Milky Way, Strömgren sphere
humor's function 1967 Sept p 106	1971 Dec p 20-29
group identity, black power, American Negro, racial discrimination.	galaxy structure, interstellar matter, Milky Way, stellar formation,
economic power, ethnic groups, slavery, social deprivation	supernovae, galactic dust clouds, nebulae, Bok globules
1967 Apr p 21–27 [633]	1972 Aug p 48-61
group practice, national health insurance, medical care	Gunflint cherts, bacteria, blue-green algae, fossil cells, evolution, origins
1949 June p 11–15	of life Precambrian rocks, prokaryotic cells, oldest [055][5
group pressure, group behavior, social psychology, conformity, human	1971 May p 30-42 [395]
subjects, experiments in susceptibility to group pressure	Gunn effect, electric field, microwave emission, negative resistance, solid
1961 Dec p 45-51	state physics, electronics, gallium arsenide, solid state microwave generation 1966 Aug p 22-31
group psychotherapy, psychiatry, emotional illness	generation 1900 Aug p 22 3
1950 Dec p 42-45 [449]	gunshot wounds, surgery, medical history, assasination of U.S. President McKinley 1963 Mar p 118-120
for schizophrenics 1962 Mar p 42	McKinley 1963 Mar p 110-123
group theory, high-energy physics, resonance 'particles', Regge poles,	guvot, Afar triangle, Red Sea, Rift Valley, Gulf of Aden, sea floor
temporary associations of particles 1963 Jan p 38-47 [290]	spreading, continental drift, sea-floor spreading opens new ocean 1970 Feb p 32-40 [891]
mathematics, physical sciences, 'eightfold way', field theory, S-matrix	1970 1 to p 32 of
theory, mathematics in physics 1964 Sept p 128-146	gy nandromorphism, chromosomal anomalies, genetic mosaic, chimera, organisms with tissue cells of different genes 1960 May p 118-130
group therapy, emotional illness, therapeutic community, role channeling	gy psum, mining Amerindian, New World archeology, prehistoric man in
1971 Mar p 34-42 [534]	Mammoth cave 1960 July p 130-140
growth, Thompson, form, science history, life and work of D'Arcy	gypsy moth, biological pest control, pheromones, olfactory receptors, sex
Thompson 1952 Aug p 60–66	attractants, silk moth, chemotaxis, communication
ACTH, hormone, sexual characteristics, thyroid-stimulating hormone,	1974 July p 28-35 [1299]
follicle-stimulating hormone, prolactin, androgens, estrogens,	gyres. Farth, ocean circulation, wind, unwelling, the circulation of the
secondary sexual characteristics, human physiology, endocrine	oceans 1955 Sept p 96-104
system, chemical integrators of the body 1957 Mar p 76–88 [1122]	gyroscope, accelerometer, aircraft navigation, navigation, air transport,
adolescence, child development, menarche, earlier maturation of	inertial navigation, commercial adaptation of military and space
children in industrial countries 1968 Jan p 21-27 embryonic development, computer modeling, grid-transformation, the	technology 1970 Mar p 80-86
embryonic development, computer modeling, and treatment of tissues in embryos 1978 June p 106–113 [1391]	
shaping of tissues in embryos 1978 June p 106-113 [1391] growth hormone, pituitary gland, ACTH, gonadotrophic hormones,	
metabolic hormones, endocrine system, the master gland	H
1930 000 0 10 42	II
contisone insulin, estrogens, gene activation,	
	H-R diagram: Hertzsprung-Russell diagram
	H-R diagram, globular cluster stars, dwarf stars, spectroscopy, stellar evolution, subdwarf stars bluer because poorer in heavy elements
A CTU shild development dwarfism, emotional deprivation,	evolution, subdwarf stars bluer because poorer in neavy elements 1961 June p 111–120
	globular cluster stars, stellar evolution. Red Giant stars, stellar
deprivation dwarfism, bothe age, and 1972 July p 76–82 [1253]	modeling main-sequence stars, stellar anatomy, age of cluster stars
adolescence, child development, medical care, 'bone age', menarche,	1970 July p 26-39
heredity vs environment	Haber process, bacteria, nitrogen cycle, nitrogen fixation, blue-green
- Andreast minopis, minimal y maderial	algae, biosphere, nitrate, legumes, eutrophication
dwarfism, genetic disease, congenital anomalies, consanguinity, dwarfism, genetic disease, congenital anomalies, consanguinity, 1967 July p 102-110	1970 Sept p 136–146 [1194]

panhypopituitarism, General Tom Thumb

heavy metal poisoning, chelation, hemochromatosis, lead poisoning.	hemagglutination test, virology, complement-fixation test, neutralization
pharmacology, drug action, Wilson's disease, metal poisoning, bone	test 1955 Mar. p 60-70
cancer, salicylates, aspirin, cancer therapy, chemotherapy, medical	hematite, iron ore, mining, ore beneficiation, low-grade ores, taconite
exploitation of chelates 1966 May p 40-50	1968 Jan p 2835
heavy nuclei, nuclear fission, liquid-drop model, neutron, uranium 235,	hematology, comparative physiology, erythrocyte, structure of red blood
shell model, fission fragments 1965 Aug p 49–59	cell 1957 Jan p 95–102
heavy oil, deposits in U S 1974 July p 47	'hemlock', alkaloids, plant physiology, morphine, strychnine,
heavy water, U.S sales abroad 1956 May p 55	physostigmine, caffeine, conune, quinine, cocaine, ricinine, LSD,
heavy-water reactor, nuclear power, fission reactor, homogeneous reactor,	human toxins in plant physiology 1959 July p 113-121 [1087]
	hemochromatosis, chelation, lead poisoning, pharmacology, drug action,
	Wilson's disease, metal poisoning, heavy metal poisoning, bone
CANDU reactor, nuclear power, natural reactor, fission reactor, CANDU system 1975 Oct p 17-27	cancer, salicylates, aspirin, cancer therapy, chemotherapy, medical
	exploitation of chelates 1966 May p 40–50
Hebrew civilization, Mycenaean civilization, Linear A script, Linear B	because only harmonic harmonic place and property
script, Minoan civilization, Crete, Semites, common origin of Greek	hemocyanin, hemoglobin, chlorocruorin, blood pigments
and Hebrew civilizations 1965 Feb p 102-111	1950 Mar p 20–22
Heisenberg principle, see uncertainty principle	ceruloplasmin, oxygen transport, enzymes, copper deficiency,
HeLa cancer cells, clone, cell culture, somatic cells, tissue culture, single	cytochrome oxidase, copper biochemistry, Wilson's disease,
human cells 1957 Aug p 91–100 [33]	tyrosinase 1968 May p 102-114
helical antenna, radio telescope, interferometry, radio	hemoglobin, hemocyanın, chlorocruorın, blood pigments
1955 Mar p 36–43	1950 Mar p 20–22
helicopters, rotary-wing aircraft, hovering flight, ram jet	sickle cell disease, malaria, amino-acid substitution, anemia
1955 Jan p 36–40	1951 Aug p 56-59
aeronautics, aircraft design, helicopter flight, history, future	chlorophyll, tetrapyrrole ring, cytochrome, respiration, enzymes,
	tetrapyrrole virtuosity 1958 Aug p 77–81
development 1967 Apr p 38-46 heliocentric theory, calendar, solar system, planetary motion, time, year,	allosteric enzymes, myoglobin, X-ray diffraction, amino-acid sequence,
nenocentric meory, calcinuar, solar system, pranctary motion, time, year,	contour maps, folding of four chains, alpha chain, beta chain
astronomy, Copernicus, astronomy, Copernicus, length of calendar	1964 Nov p 64–76 [196]
helium, low-temperature physics, cryogenic technology, superfluidity,	enzymes, protein synthesis, myoglobin, control systems, feedback,
superconductivity 1949 June p 30–39 [206]	cooperative enzymes, allosteric enzymes, control of biochemical
supercooling, superfluidity, neutron scattering, fountain effect, 'quasi	reactions 1965 Apr p 36–45 [1008]
particles' model of liquid helium 1960 Nov p 138-150 [272]	exercise adaptation, breathing, heart, blood circulation, human
crystal structure, solid state physics, zero-point motion, quantum solid,	physiology 1965 May p 88–96 [1011]
solid helium, physical and theoretical properties 1967 Aug p 84-95	evolution, myoglobin, molecular evolution, amino acids, evolutionary
heat, diffusion, solid state physics, thermal waves, second sound,	distance measured by amino-acid substitution
cryogenics, wave propagation, phonon, thermal waves in solid	1965 May p 110-118 [1012]
helium 1970 May p 92–101	comparative physiology, ice fish, oxygen, blood, Antarctic fish without
from natural gas 1958 July p 52	red cells or hemoglobin 1965 Nov p 108-114
see also liquid helium, cryogenics, low-temperature physics	mathematical model, computer modeling, giant molecules, cytochrome
helium 1, superfluidity, helium 2, seond sound, quantum mechanics, low-	helix, myoglobin, molecular modeling, DNA
temperature physics, liquid helium properties	1966 June p 42-52 [1043]
1958 June p 30–35 [224]	brown fat, altitude adaptation, Quechua Indians, acclimatization, deer
helium 2, superfluidity, helium 1, seond sound, quantum mechanics, low-	mice, metabolic rate, exercise, human physiology at high altitude
temperature physics, liquid helium properties	1970 Feb p 52–62 [1168]
1958 June p 30–35 [224]	'anomalous' water, 'biological' water, blood, water, membrane
helium 3/helium 4 dilution, cryogenics, supercooling, nuclear cooling,	permeability, osmosis, erythrocyte, van 't Hoff law
approaching absolute zero, Pomeranchuk method	1971 Feb p 88–96 [1213]
1969 Dec p 26–35	chemotherapy, cyanate, genetic disease, anemia, erythrocyte, sickle cell
helium 3, superfluidity, liquid phase gas phase, solid state physics,	disease 1975 Apr p 44–50 [1319]
quantum effects, quantum fluids, phase transitions	genetic engineering, frog eggs, gene expression, mRNA, RNA molecule
1976 Dec p 56–71	genetic engineering, mog eggs, gene expression, mrkina, kina molecule
as superfluid 1974 Dec p 66	extracellular hemoglobin synthesis 1976 Aug p 60-71 [1343]
helium abundance, cosmology, universe expansion, cosmic background	
radiation, 'big bang' theory, low-energy radiowaves, isotropy,	hemoglobin S, anemia, sickle cell disease, human evolution, malaria
prime al fireball, 'big bang' theory and cosmic background radiation	hematology, adaptive benefits of sickle-cell anemia
1967 June p 28–37	1956 Aug p 87–94 [1065]
helium-cadmium laser, energy levels helium-selenium laser, laser, metal-	hemophilia, congenital anomalies, genetic disease, epidemiology,
gas mixtures, metal-vapor lasers 1973 Feb p 88	mutation, in Queen Victoria's descendants 1965 Aug. p 88-95
helium content, meteorites, cosmic radiation, origin of meteorites	amniocentesis, enzyme deficiency, genetic disease, prenatal genetic
1954 Nov p 36–41	diagnosis, Down's syndrome, Tay-Sachs disease, chromosomal
helium reaction, heat, thermonuclear reaction, stellar interiors, hydrogen	anomalies 1971 Nov p 34-42 [1234]
bomb, solar corona, proton-proton interaction, ultrahigh	hemostasis, platelets, hemagglutination, blood clotting, role of platelets in
temperatures 1954 Sept p 144–154	clotting mechanism 1961 Feb p 58-64
helium-selenium laser, energy levels, helium-cadmium laser, laser, metal-	henge monuments, Neolithic archeology, woodhenges, Britain,
gas mixtures, metal-vapor lasers 1973 Feb p 88	- Woodneriges, Billain,
	Stonehenge 1970 Nov. p. 30. 3c.
Hellenic art, Greek civilization, Macedonia, Pella, mosaic, capital of	Stonehenge 1970 Nov p 30-38 Henry, electrical induction, science history, radiowave, life and work of
Macedonia 1966 Dec p 98–105	Stonehenge 1970 Nov p 30-38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p. 72-77
Macedonia 1966 Dec p 98–105 Hellenistic Athens, water clock in Tower of Winds 1969 Feb. p. 46	Stonehenge 1970 Nov p 30-38 Henry, electrical induction, science history, radiowave, life and work of Joseph Henry 1954 July p 72-77 hepatitis, cancer, enzyme blood levels, myogardial infaction, cancer,
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charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons baryons, hadrons, leptons, mesons, quantum numb confinement, bag model, infrared-slavery model, charmed quarks, hadrons, quantum mechanics qua 1977 mesons by proton and X-ray beams neutral meson found multiplicity of particles	e, psi particle, ss 1975 June p 50-62 ns, leptons, quark 1975 Oct p 38-50 nes, quark 1976 Jan p 44-54 ers, quark string model 1976 Nov p 48-60 rk, charm Oct p 56-70 [388] 1949 Mar p 25	education, mathematics teaching curriculum refers sponsored curriculum reform 19 science teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, bid curriculum study high-speed photography, Kerr cell rattlesnake, pit viper, fangs, rattlesnake 'bite' is a rain, streamlining high temperature, hot springs, adaptation, low temp gas compression, shock waves, shock tube, plasm electromagnetically driven shock waves high-temperature physics, plasma jet 26000 decreases	58 Apr p 56-64 [229] brm, university 58 May p 64-74 [238] beform, Darwinism, blogical sciences 1976 Apr p 33-39 1949 June p 48-49 stab 1953 Oct p 100-102 1954 Feb p 64-68 berature, glaciation 1949 Feb p 46-49 a, mechanically and 1963 Feb p 109-119
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charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons baryons, hadrons, leptons, mesons, quantum numbe confinement, bag model, infrared-slavery model, charmed quarks, hadrons, quantum mechanics quantum mesons by proton and X-ray beams neutral meson found multiplicity of particles proliterating Furopean consortium (later C E.R N)	e, psi particle, ss 1975 June p 50-62 is, leptons, quark 1975 Oct p 38-50 ics, quark 1976 Jan p 44-54 ers, quark string model 1976 Nov p 48-60 rk, charm Oct p 56-70 [388] 1949 Mar p 25 1950 Mar p 26	education, mathematics teaching curriculum reform 19: science teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, bic curriculum study high-speed photography, Kerr cell rattlesnake, pit viper, fangs, rattlesnake 'bite' is a rain, streamlining high temperature, hot springs, adaptation, low temp gas compression, shock waves, shock tube, plasm electromagnetically driven shock waves.	58 Apr p 56-64 [229] brm, university 58 May p 64-74 [238] beform, Darwinism, blogical sciences 1976 Apr p 33-39 1949 June p 48-49 stab 1953 Oct p 100-102 1954 Feb p 64-68 berature, glaciation 1949 Feb p 46-49 a, mechanically and 1963 Feb p 109-119 F 1957 May p 62 nt and uses of vacuum
charm, color, quark, storage rings, virtual particle charmonium, charmed quarks, gauge theory, hadron hypothesis, 'color' and 'flavor' in quarks hadrons, heavy leptons, J particle, quantum mechar hypothesis, intermediate vector bosons baryons, hadrons, leptons, mesons, quantum numb- confinement, bag model, infrared-slavery model, charmed quarks, hadrons, quantum mechanics qua 1977 mesons by proton and X-ray beams neutral meson found multiplicity of particles particles proliterating	e, psi particle, ss 1975 June p 50-62 1975 June p 50-62 1975 Oct p 38-50 ncs, quark 1976 Jan p 44-54 ers, quark 1976 Nov p 48-60 rk, charm Oct p 56-70 [388] 1949 Mar p 25 1950 Mar p 26 1950 Mar p 27 1950 June p 28	education, mathematics teaching curriculum refers sponsored curriculum reform 19: science teaching, evolution, religion, curriculum reference teaching, evolution, religion, curriculum recreationism, Bible, Man, a Course of Study, but curriculum study high-speed photography, Kerr cell rattlesnake, pit viper, fangs, rattlesnake 'bite' is a rain, streamlining high temperature, hot springs, adaptation, low temperature physics, shock tube, plasm electromagnetically driven shock waves high-temperature physics, plasma jet 26000 degrees high vacuum, vacuum pump technology, achievement	58 Apr p 56-64 [229] brm, university 58 May p 64-74 [238] beform, Darwinism, blogical sciences 1976 Apr p 33-39 1949 June p 48-49 stab 1953 Oct p 100-102 1954 Feb p 64-68 berature, glaciation 1949 Feb p 46-49 a, mechanically and 1963 Feb p 109-119

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herbarium resources, botanical collections, food plants, pharmacology heuristic programs, artificial intelligence, computer technology, computer 1977 May p 96-104 [1359] programming herbicide, fertilizers, insecticide, agricultural technology, chemical 1966 Sept p 246-260 hexaflexagons, mathematics, flexagon, flexigation, topology, delight and agriculture 1952 Aug n 15-19 depth of mathematics DDT, soil pollution, gamma radiation, X-ray, soil ecology 1956 Dec p 162-166 hexagonal habit, snow crystals, cloud physics, bullet clusters, tsuzumi 1969 Apr p 88-99 [1138] crystals, variations on a theme bacteria, chemical weapons, biological weapons, Vietnam war, arms 1973 Jan p 100-107 hilbernation, metabolic rate, thermoregulation, body temperature, animal race, CS gas, virus disease, nekettsiae, tear gas, chemical-biological behavior Warfare 1950 Dec p 18-21 1970 May p 15-25 [1176] hummingbird, metabolism, body temperature, thermoregulation, agricultural technology, mulch, weed control, tillage without plow surface-to-volume ratio 1953 Jan. p 69-72 1977 Jan p 28-33 [1349] hypothermia, surgery, shock, metabolism, body temperature, artificial toxin form root-nodule bacterium 1969 July p 54 lowering of body temperature for surgery and shock herding, hunting food gathering, tribal cultures, agricultural society, 1958 Mar p 104-114 aboriginal culture, India, 'living prehistory' in India asphyxia, breathing diving bradycardia, respiratory gas exchange, 1967 Feb p 104-114 diving mammals, diving birds, oxygen storage, selective ischemia, hereditary material, leukocyte, nucleus, DNA, Miescher, spermatozoon human physiology, redistribution of oxygenated blood and 'master nucleus chromatin, discovery of DNA 1968 June p 78-88 [1109] switch of life' 1963 Dec. p 92-106 heredity, sexual reproduction, evolution, origin of sexual reproduction adipose tissue, brown fat, thermoregulation, homeostasis metabolism, 1949 Apr p 52-55 cold adaptation, neonatal physiology, heat production in newborn chromosome, DNA, RNA, nucleoproteins, protein synthesis, DNA 1965 Aug. p 62-65 [1018] animals, including man identified as agent of heredity 1953 Feb p 47-57 [28] basal metabolism, homeothermy, circadian rhythm, feeding behavior animal behavior, habitat selection, ecological adaptation, learning, field circannual rhythm, hypothalamus, squirrels, dormice in hibernation experiments with mice 1964 Oct p 109-116 [195] 1968 Mar p 110-118 [513] porphyria, genetic disease, metabolic disease, George III animal behavior, biological clock, circadian rhythm, circannual 1969 July p 38-46 [1149] rhythm, animal migration, manic depression intelligence, race, whites, IQ, heredity, American Negro, population 1971 Apr p 72-79 [1219] genetics, science policy, social psychology, twins, environment, racial hickory, fences, axe-handles, smoked ham, hickory nuts, economic discrimination 1970 Oct p 19-29 [1199] botany, forest, natural history, shagbark hickory 1948 Sept p 40-43 intelligence, race, whites, IQ. American Negro, heredity, population hickory nuts, hickory, fences, axe-handles, smoked ham, economic genetics, science policy, social psychology, twins, environment, racial botany, forest, natural history, shagbark hickory 1948 Sept p 40-43 discrimination 1970 Oct p 19-29 [1199] hieroglyphs, Sumer, cryptology, a 3,500-year-old agricultural handbook hermaphrodite, cardiac function, hagfish, comparative psychology, 1951 Nov p 54-55 cyclosomes, knot-tying fish 1953 Jan p 26-28 1966 Feb p 82-90 [1035] Sumer, law code, Ur-Nammu heroin, analgesics, morphine, opium, poppy, codeine, Bentley's writing, pictograph, ideographs, Mesopotamia, origin of writing in clay 1978 June p 50-59 [708] compound, drug action, search for strong safe analgesic tokens 1966 Nov p 131-136 [304] high-alumina cement, cement, chemical reaction, Portland cement, 1977 July p 82-90 [370] herpes simplex, virus, chick-embryo culture, symbiosis cement hardening and strength 1949 Nov p 50-53 high compression, automobile engines, 'knock', combustion chamber kerato-conjunctivitis, treatment design, high-octane fuel, mechanical vs chemical solutions for 1962 Apr p 80 1950 Feb p 16-19 herpes virus, adenoviruses, virology, X-ray diffraction, poliomyelitis premature combustion high-energy chemistry, chemical accelerators, molecular beam, ion beam virus, polyoma virus, influenza virus, vaccinia virus, tobacco mosaic 1968 Oct p 44-52 virus, bacteriophage, structure of viruses 1963 Jan p 48-56 sputtering high-energy photons, hadrons, 'strong' force, photons as hadrons adenoviruses, cancer virus, virus disease, viral vaccines 1971 July p 94-104 1973 Oct p 26-33 high-energy physics, particle accelerator, inventory of plant world wide degenerative diseases, immune system, slow virus infection, virus 1948 Oct p 18-19 1974 Feb p 32-40 [1289] disease, kuru, scrapie, cancer virus cosmic radiation, elementary particles, ion traps, secondary radiation herpetology, animal behavior, locomotion, snake, lateral, reculinear, 1949 Mar p 28-39 concertina and sidewinding modes of progression Dublin Institute for Advanced Study, report on a visit by Leopold 1970 June p 82-96 [1180] 1949 Oct p 11-15 heat sensors, infrared receptors, sensory organs, snake, infrared laser Infeld Manchester, Birmingham report on visit by Leopold Infeld 1973 May p 94-100 [1272] 1949 Nov p 40-43 herring, animal navigation, chemotaxis, shad migration, homing 1949 Dec p 40-43 Warsaw, report on a visit by Leopold Infeld behavior, temperature as migration control radiation counters, particle counters, how counters work 1973 Mar p 92-98 [1268] 1950 July p 40-43 'Hertzian' waves, radio, science history, electromagnetism, quantum mechanics, special relativity, atomic structure, science, electromagnetic spectrum Heinrich Hertz biography 1950 Sept p 28-31 physics 1900-1950 1957 Dec p 98-106 particle accelerator, cosmotron, Bevatron, technology of high energy Hertzsprung-Russell diagram, see H-R diagram physics moves into the Giga (billion) volt range 1951 Feb p 20-25 heteropod, 'false bottom', marine biology, plankton, sonar, shrimp, deepmesons, v-particles, fermion boson, the multiplicity of particles sea scattering layer, deep-sea 'layer of life' 1951 Aug. p 24-28 1952 Jan p 22-27 heterostructure lasers, carner-wave generator, communication field theory, Classical physics, quantum fields, elementary particles, technology, crystal structure, diode laser, laser, light-emitting with 20 particles known, a review of the theoretical foundations of 1971 July p 32-40 semiconductor, solid-state electronics 1953 Apr p 57-64 [208] heterosynaptic facilitation, aplysia, neurones, behavior, learning, memory, physics electromagnetic force, nuclear forces, proton, neutron, mesons, particle synapse, memory and learning at nerve-cell level scattering fundamental research, what holds the nucleus together? 1970 July p 57-70 [1182] 1953 Sept p 58-63 heterothermy, 'cold-blooded' animals, ectothermy, metabolism, insect cosmic radiation, massive nuclei, Milky Way, magnetic field, particle flight, sphinx moths, temperature regulation, Mandura sexta warmacceleration, supernovae, fundamental research, where do cosmic 1972 June p 70-77 [1252] up mechanisms 1953 Sept p 64-70 [239] heterotrophs, origins of life, Miller-Urey experiment, high-energy rays come from? quaternions, complex numbers, non commutative algebra, radiation, fermentation, photosynthesis, autotrophs mathematics, Hamilton, life and work of William Rowan Hamilton 1954 Aug p 44-53 [47] 1954 May p 82-87 ecology, energy cycle, biomass, solar energy, food chain, element antiproton, positron proton, Bevatron antimatter, postulation and

1958 Apr p 83-92

1970 Mar p 98-107 [1172]

discovery of antiproton

abundance, autotrophs, the ecosphere

electrophoresis, population genetics

heterozygosity, evolution, gene pool, mutation, genetic load,

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	uly p 55-68 [217]	US-USSR. joint facilities	1960 Jan p 71
	956 Aug p 29–35	omega meson found	1961 Nov p 79
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	uly p 72–88 [213]	resonance 'particles', 'eightfold way'	1964 Jan p 54
the multiplicity of particles 1957 J colliding beam accelerator, cyclotron, synchrotron, st		particle physics, intermediate boson	1964 Mar p 54
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	far p 64-76 [251]	nine more particles	1964 July p 44
antimatter, antiproton, antineutron, Bevatron, cosmo		intermediate boson not observed	1964 Oct p 59
	958 Apr p 34-39	quark, 'S U (3)' extended by 'S U (6)'	1965 Mar p 52
'cosmon', 'anticosmon' atomic nucleus, shell model, optical model, liquid-dro		fifth force not found, time-reversal symmetry violated	•
exchange, spin-orbit force, resonance 'particles', pr	op model, charge		1965 Apr p 56
	1959 Jan p 75–82	'algebra of currents'	1967 Nov p 59
		US budget restrictions	1968 Aug. p 42
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	July p 46-55 [275]	proton scattering at CERN	1971 Sept p 75
		conference on unification of weak and electromagnetic	
astrophysics, neutrino, neutrino astronomy, neutrino	ug. p 90–98 [283]	70	1972 Nov p 49
		unexplained surplus of hadrons	1974 May p 59
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		colliding beam facilities	1976 Aug p 42
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		high-energy radiation, origins of life, Miller Urey expeni	
baryons, mesons, 'strong' force, 'eightfold way', cons	branthers	heterotrophs, fermentation, photosynthesis, autotro	
Regge trajectory, resonance 'particles', 'bootstrap'	113 pouncsis		Aug. p 44–53 [47]
	Feb p 74–93 [296]	mutation, radiation damage, nuclear medicine, X-ray,	
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		transuranium elements, heavy ion linear accelerator	
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nuclear forces on spin storage rings, synchrotron, particle accelerator, collic		high-gradient magnetic separation, kaolin punification, m	
	v p 107–116 [323]	separation, separation techniques, wastewater purif	
accelerator, spark chamber 1966 No antimatter, Leidenfrost phenomenon, Zeeman effect			75 Nov p 46–54
cosmology, high-energy physics and cosmology	, men meory,	high-octane fuel, automobile engines, high compression,	'knock'
	or p 106–114 [311]	combustion chamber design, mechanical vs chemical	
mesons, particle accelerator, pions, proton, quark, n			950 Feb p 16–19
	1967 Dec p 76–91	high pressure, synthetic diamonds, carbon phases, therm	
elementary particles, energy levels, atom, nucleus, sp			955 Nov p 42–46
	1968 May p 15–19	amoebae, cell, cytology, sol gel reaction, effect of high	pressure on
Cerenkov radiation, tachyons, speed of light, special		cellular activity	958 Oct p 36-43
	1970 Feb p 68–77	magnetic resonance, atomic structure, magnetic field,	electric field of
proton model, neutron structure, quark, scattering e		atom, behavior of atoms under high pressure 196	5 Jan p 102–108
	1971 June p 60-77	superconductivity, critical temperature, critical tempe	rature in certain
atomic nucleus, atomic structure, exotic atoms, kaoi			971 Apr p 83–94
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	72 Nov p 102-110		965 May p 38-46
beta decay, bubble chamber experiments, hadrons	neutrino beam,	Earth core, iron-nickel alloy, X-ray diffraction, crystal	lography, core
particle accelerator, positron	1973 Aug. p 30-38	studies by analogy, diffraction patterns of iron alloy	,s
antimatter, colliding-beam accelerator, electron pos	sitron annihilation,	1965	June p 100-108
proton, parton model, quantum electrodynamics		magnetism, ultrastrong magnetic fields, explosive com	pression,
	973 Oct p 104-113	implosion, flux compression	965 July p 64-73
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electromagnetic force, 'strong' force	1974 July p 50~59	enough scientists and engineers 19	954 Feb p 27-29
dual resonance model, hadrons, light-string theory,		curriculum reform, science teaching, physics curriculu	m, Physical
interactions	1975 Feb p 61-67	Science Study Committee university sponsored cur-	nculum reform
antimatter, electron positron annihilation, J particl	e, psi particle,	1958 A ₁	pr p 56-64 [229]
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charmonium, charmed quarks, gauge theory, hadro	1975 June p 50-62	sponsored curriculum reform 1958 M	av p 64-74 [238]
hypothesis, 'color' and 'flavor' in quarks	1975 Oct p 38-50	science teaching, evolution, religion, curriculum reform	n, Darwinism,
hadrons heavy leptons J particle, quantum mechan	nice disary	creationism, Bible, Man, a Course of Study, biologic curriculum study	al sciences
hypothesis, intermediate vector bosons	1976 Jan p 44-54	17.7	76 Apr p 33–39
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	1976 Nov p 48-60	rain streamlining	3 Oct p 100–102
charmed quarks, hadrons quantum mechanics qua	ark, charm	high temperature, hot springs adaptation, low temperature	954 Feb p 64-68
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mesons by proton and \(\lambda\)-ray beams	1949 Mar p 25	gas compression shock waves shock tube plasma me	chanically and
neutral meson found	1950 Mar p 26	ciccioniagicically only n thock water 1003	Feb p 109-119
multiplicity of particles particles proliterating	1950 Mar p 27	nigh-temperature physics, plasma jet 26000 degrees E	1007 1/ /-
European consortium (later C E.R.N)	1950 June p 28	mgn vacuum, vacuum pump technology, achievement and	duses of vacuum
CERN financed	1952 Feb p 34	10	50 May p 20-24
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high-voltage current, circuit breakers, electric power, plasma ares	lyonedian observation
1071 1 - 70	hoarding, observed in rats 1950 July p 29
argustatinge transmission, afternating current, electric nower, nower,	and the state of t
Garantino de la	igloo, teepee, yurt, tent, sod hut, adobe house, stilt house
economic advantages of high-voltage transmission	'hole' plasma, plasma physics, electron plasma, positive ion plasma,
1964 May p 38-4	plasmas in solids as models for study of gas plasmas
mgiway engineering, automobiles, wheel hounce road hudding	1963 Nov. p. 46-53
'corrugated' road surface, 'washboard' road surface	hole tone, feedback, vortex edge tone perodi name a histor cound
1963 Jun p 128-13	waves, whistles, flutes, organs and rocket engines 1970 Jan p 40-46
urban planning, Ciudad Guyana, cities, land ownership, economic geography, a model city in Venezuela 1965 Sept. p. 122-13	holographic model, holography, memory, learning, brain function.
geography, a model city in Venezuela 1965 Sept. p. 122–13	
urban planning, central city, cities, mass transit, open space, diversity, 'paths'	remembering 1969 Jan p 73-86 [520]
1903 Sept p 209-21	
mgnway safety, international statistics 1971 Feb p 4 motor-vehicle accidents 1971 Apr p 5	
Hilbert program, Chinese remainder theory, computability theory,	- interview of the first reconstruction, color notography
Diophantine equations mathematics 1973 Nos. p 84-9	1968 Feb p 40-48
negative proof of 10th problem 1970 Scot n. 8	
Hilbert spaces, mathematics, set theory, logic, paradox, non-Euclidian	memory, learning, brain function, interference patterns, monkey brain
space, non-commutative algebra, science, mathematics 1900-1950.	holographic model, neurophysiology of remembering
undecidable questions 1950 Sent p 40-43	2 1969 Jan p 73-86 [520]
Hill reaction, photosynthesis, chloroplast, grana 1953 Nov p 80-80	laserless holograms, white-light holograms 1976 Oct p 80-95
Himalaya formation, mountain formation, continental drift,	character recognition by computer 1966 Jan p 48
Gondwanaland, Indian-Ocean formation, magnetization patterns,	by sound waves 1968 Jan p 46
plate tectonics, sea-floor spreading 1973 May p 62-72 [908	- ^^
mountain formation, continental drift, earthquake zones, Gobi Desert,	computer memory, magnetic-film holography 1969 Sept p 98
India-Eurasia collision, plate tectonics, sea-floor spreading, Tibetan plateau 1977 Apr. p. 30-41	acoustic holography, laser, sound waves, interference, acoustic imaging
plateau 1977 Apr p 30-41 Hinduism, class discrimination, Harijans, untouchables, caste, India, civil	
rights 1965 Dec p 13–17	homeostasis, fever, leukocyte, thermoregulation, hypothalamus, etiology of fever 1957 June p 62-68
hippocampal system, memory, brain organization, rats, spatial memory	body water, water balance, distribution between intracellular and
1977 June p 82–98	
Hippocratic oath for scientists. World Federation of Scientific Workers	wound shock, body fluids, shock, emergency medicine, treatment of
1948 June p 24	shock 1958 Dec p 113-124
hippopotamus, animal husbandry, antelope, giraffe, elephant, buffalo,	bacterial-cell wall, lysozyme, bacterial cytoplasm, protoplasts,
rhinoceros, wildlife husbandry in Africa 1960 Nov p 123-134	bacteriophage, flagella, dissection of bacteria by lysozyme
Hispaniola, West Indies, New World archeology, stone artifacts, island	1960 June p 132-142
chains, sea routes, seafaring hunters from Central America?	thermoregulation, hypothalamus, human physiology, human body thermostat 1961 Jan p 134-147 [129]
1969 Nov p 42–52 [652] histamine reaction, aspirin, inflammation, analgesics, fever,	adipose tissue, hibernation, brown fat, thermoregulation, metabolism,
bronchospasm, anaphylactic shock, mode of action and hazards of	cold adaptation, neonatal physiology, heat production in newborn
most widely used drug 1963 Nov p 96-108	animals, including man 1965 Aug p 62-65 [1016]
histocompatability, fetus as transplant, immune response, immunological	homeotherms, behavioral adaptation clothing clothing and body-
privilege, reproduction, trophoblast, nidation, placenta	temperature control 1956 Feb p 109-110
1974 Apr p 36–46	basal metabolism, hibernation, circadian rhythm, feeding behavior,
antigens, cell-surface antigens, graft rejection, immune response, H-2	circannual rhythm, hypothalamus, squirrels, dormice in hibernation 1968 Mar p 110-118 [513]
antigens, HLA antigens 1977 Oct p 96–107 [1369] histocompatibility, antigens, HLA-associated diseases 1978 Jan p 64	Homer Linear R script Minoan language Greek civilization, cryptology,
antibodies, cell membrane, antigens, immune response,	an account of the decimerment 1934 IVIAY P 10 "
immunoglobin, lymphocytes, B-cells, T-cells	homing behavior, bird migration, bird navigation 1948 Dec p 18-23
1976 May p 30-39 [1338]	salmon, fish migration, animal navigation, chemotaxis
histones, cell nucleus, chromatin, chromosomal proteins, DNA, gene	1955 Aug p 72–75
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1975 Feb p 46–57 [1315]	animal naugation, chemotavis, herring shad migration, temperature as
histoplasmosis, fungal infection, respiratory infection, airborne infection, epidemiology, coccidioidomycosis 1948 June p 12-15	migration control 1973 Mar p 92-98 (1200)
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history of exploration, Antarctica, I G Y, Antarctic Treaty, introduction	hominid hand toolmakers human evolution evolution of the human
to a single-topic issue on Antarctica 1962 Sept p 60-63	hand 1962 Dec p 56-62 [140]
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lobes, blood typing 1953 Aug p 76–81 [1062]	human evolution, Miocene fossils, primate evolution, Ramapithecus
Litties Phoenician script, Karatepe citadel 1949 Aug p 22-23	1977 May p 28–35 [695]
Arrawa Anatolia, archeology	Olduvai Gorge, toolmakers, human evolution, foodsharing, evolution of behavior, evidence for protohuman behavior in two-million-year-
	old sites 1978 Apr p 90-108 [706]
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well' medical care financing, Kaiser health plan, Medicaid, Medicare,	of man 1964 July p 50–62 [622]
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	Dec p 28-35 [636]
Hoabinhian culture, Neolithic archeology, agricultural revolution, Spirit 1972 Apr p 34-41 [675]	Homo, man-apes, human evolution, Australopithecus, Paranthropus,
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Homo erectus, human evolution, fossil men, Java man, Peking man,	amphibian, metamorphosis, frog, thyroxin, pituitary gland,
Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630]	hypothalamus, neurosecretory system, chemistry of amphibian
European fossils 1966 Jan p 49	metamorphosis 1966 May p 76-88 [1042]
dates in question 1969 Sept p 101	marine birds, phalarope, sexual behavior, animal behavior, parental
Homo habilis, earliest man(?) 1964 May p 62	care, sex role 1969 June p 104-111
third human species? 1964 Aug p 43	calcitonin, thyroid, metabolism calcium metabolism, bone, human
human evolution, Olduvai Gorge 1965 May p 50	physiology, recognition and characterization of calcitonin 1970 Oct p 42-50
Homo monstrosus, monsters, manlike creatures, mythology	•
1968 Oct p 112–118	ACTH, ATP, glucogenesis, glycolysis, epinephrine, cell metabolism, cyclic AMP, activation of cyclic AMP by hormones
Homo sapiens, Neanderthal man, Charente skull, Galley Hill skull,	1972 Aug p 97–105 [1256]
human evolution, Swanscombe cranium, antiquity of Homo sapiens 1948 July p 16-19	hypothalamic hormone, luteinizing hormone, neurohumoral factors,
1001 7	pituitary control, thyroid-stimulating hormone, TSH
bones 75,000 years old 1951 June p 35 homogeneous reactor, nuclear power, fission reactor, heavy-water reactor,	1972 Nov p 24–33 [1260]
enriched uranium, A E C program 1951 Apr p 43–50	chemotherapy, drug effects, liver function, pharmacology, vaccine,
fission reactor, nuclear power, breeder reactor, boiling-water reactor,	antibiotics, medical care, herbial medicine 1973 Sept p 102-112
sodium-cooled reactor, fast neutron reactor 1954 Dec p 33–39	a pharmaceutical business 1951 Mar p 30
honeybee, social insect, natural history 1955 Aug p 52–60	intermedin 1956 Nov p 70
communication, insect behavior, bee dances, honeybee sound	medieval China 1964 Feb p 68
communication 1964 Apr p 116–124 [181]	hormone-like substances, fatty acids, feedback, drug therapy, nervous
honeybee housekeeping, pollen, hive environment	system, prostaglandin 1971 Nov p 84-92 [1235]
1972 Apr p 92-98 [1247]	hormone-sensitive neurons, adrenal hormones, brain circuitry, gonadal
honey bee housekeeping, honeybee, pollen, hive environment	hormones, sex hormones, sexual behavior, sex differences, steroid
1972 Apr p 92–98 [1247]	hormones, action of hormones on nerve tissue
'Honi' phenomenon, visual perception, 'Ames room', personality,	1976 July p 48–58 [1341]
aniseikonic lenses, anxiety, emotional relationships condition	horn, evolution, antler, osteogenesis, bone, keratin, ungulates, differences between horns and antlers 1969 Apr p 114–122 [1139]
perception 1959 Apr p 56-60 hoof-and-mouth disease. U.SMexico convention 1952 Oct p 38	horn flare, musical instruments, physics of brasses, trumpet bell, trumpet
hoof-and-mouth disease, U.S. Mexico convention 1952 Oct. p. 38. Hooke, astronomy, microbiology, science history, life and work of Robert	pipe 1973 July p 24–35
Hooke 1954 Dec p 94–98	horology, evolution of the clock 1959 Oct p 86
Hooke body, rheology, flow of matter, Newton body, St Venant body,	horse, badger, dog, cheetah, locomotion, deer, comparative anatomy,
how solids flow 1959 Dec p 122–138 [268]	running, how animals run 1960 May p 148-157
Hopewell cult, Amerindian, burial mounds, New World archeology	animal husbandry, mules, donkeys, genetics and natural history of
1964 Dec p 90-102	mule 1970 Dec p 102–109 [1208]
Hopi Indians, Amerindian, Tewa Indians, cultural assimilation, Pueblo	horseshoe crab, animal navigation, polarized light, Nichol prism, dichroic
Indians 1957 June p 126–136	material 1955 July p 88–94
hopping energetics, animal behavior, kangaroos, mammalian evolution,	vision, Limulus, ommatidia, visual perception, optic nerve, horseshoe
marsupial 1977 Aug p 78–89 [1366]	crab as laboratory animal 1956 Dec p 113–122
hops, beer, enzymes, yeast, brewing fermentation, chemistry and microbiology of brewing 1959 June p 90-100	horticulture, flowering, plant hormones, photoperiodicity, control of flowering 1952 May p 49-56 [113]
hormonal action, lactogenesis, milk, mammary gland, casein, cell	virology, 'tulipomania', benign virus infection 1960 Aug p 138–144
secretion, composition and synthesis of cow's milk	hospital, in 'family doctor' role 1972 Feb p 40
1969 July p 58–68	hospital care, medical care, medicine, physical incapacitation, morbidity,
cell communication, genetic code, communication, nerve impulse,	mortality rates, ambulatory care, triage, health insurance,
metabolic information 1972 Sept p 42-51 [1257]	introduction to single-topic issue on medical care
cell receptors, endocrine hormones, gene regulation, protein synthesis,	1973 Sept p 22–33
steroid hormones 1976 Feb p 32-43 [1334]	medical care, in-patient care, out-patient care, medical technology,
on maternal behavior 1972 Nov p 52	medical history, triage 1973 Sept p 128–137
hormonal induction, DNA, chromosome puffs, insect chromosome, RNA synthesis, gene regulation 1964 Apr p 50-58 [180]	health insurance, medical economics, medical care, third-party payment 1973 Sept. p. 151-159
synthesis, gene regulation 1964 Apr p 50-58 [180] hormone, cortisone, ACTH, inflammation, degenerative diseases, stress,	payment 1973 Sept p 151-159 medical technology, medical care, ambulatory care, morbidity,
experience with and appraisal of two hormonal drugs	international comparison of medical care systems
1950 Mar p 30–37 [14]	1975 Aug p 17-25
acetylcholine, nerve impulse, serotonin, synapse, emotional illness.	hospital infections, staphylococcus, antibiotic resistance, revival of
neurotransmitters, central nervous system, physiological psychology,	classical aseptic routines 1959 Jan p. 41-45
chemical mediation of nerve impulses 1957 Feb p 86-94	host-parasite relationship, fleas, parasitism, hormone, rabbits, estrus,
ACTH, sexual characteristics, growth, thyroid-stimulating hormone,	adaptation, the rabbit flea and rabbit hormones
follicle-stimulating hormone, prolactin, androgens, estrogens,	1965 Dec p 44-53 [1027]
secondary sexual characteristics, human physiology, endocrine system, chemical integrators of the body 1957 Mar p 76-88 [1122]	host-restriction endonuclease, DNA operator, DNA repressor, gene expression, gene regulation, operator-repressor system
progesterone, pregnancy, uterine muscle, menstrual cycle, hormone	1976 Jan p 64-76 [1333]
inhibition of uterine muscle contraction 1958 Apr p 40–46 [163]	host-specificity, virus disease, influenza virus, bacteriophage,
flowering, photoperiodicity, plant circulation, pigment,	poliomyelitis virus bacteriophage, antigen-antibody reaction
photoperiodicity in regulation of plant physiology	immunity, infection, viruses in infection and in the laboratory
1958 Apr p 108-117 [112]	1951 May n. 43.51
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numan physiology 1959 Dec p 70-76 skin color, pigmentation, melanin, melanocytes, melatonin	hot-air engine, Philips air engine, heat engines, external combustion engines Stirling engine 1948 July p. 52-55
1961 July p 98–108	engines Stirling engine 1948 July p 52-55 cryogenic technology, Stirling cycle, refrigeration, closed cycle,
animal behavior, brain stimulation, neurotransmitters, drive activation	displacer 1965 Apr - 110 122
b) injection of chemicals into rat brain 1964 June p 60–68 [485]	hot-atom chemistry, chemical reaction, nuclear reaction, by drogen
avian reproduction, ring dove, breeding cycle, sexual behavior,	Chemistry at high velocity
fertilization 1964 Nov p 48–54 [488]	hot spots, domes, island arcs, plate tectonics, ocean rifts, plumes
fleas, parasitism, host-parasite relationship rabbits, estrus, adaptation, the rabbit flea and rabbit hormones 1965 Dec p 44-53 [1027]	Voicanoes
1303 Dec p 44-33 [1027]	not springs, adaptation high temperature, low temperature, glaciation
	1949 Feb p 46-49

hot water, energy resources, solar energy, residential heating, windows, low-potential energy, Sun can supply most of the 30 percent of fuel	anthropology, culture as concept, science, anthropology 1900 1950 1950 Sept p 87-94
energy consumed in domestic heating 1951 Feb p 60-65	Rh factor, Rh negative gene, Ro gene, blood typing, race
house sparrow, biological clock, circadian rhythm, photoperiodicity, pineal organ, nonvisual light receptors 1972 Mar p 22–29 [1243]	l951 Nov p 22-25 bipedal walking, lumbar vertebrae, pelvis, lower-back pain, 'scars of
household appliances, consumer-product research, consumer protection,	human evolution' 1951 Dec p 54-57 [632]
energy conservation, product safety, product technology, N B S	natural selection, gene mutation, mutation, eugenics, 'man's genetic
1977 Dec p 47–53	future' 1952 Feb p 68-74 evolution of behavior, toolmakers 1953 Dec p 65-72
housework, sex role, time spent in housework 1974 Nov p 116-120	evolution of behavior, toolmakers 1953 Dec p 65-72 Olduvai Gorge, toolmakers, man-apes, hand axes, stone tools
housing, racial discrimination, segregation, American Negro, Puerto Ricans, poverty 1965 Aug p 12-19 [626]	1954 Jan p 66-71
urban planning, central city, suburbs, cities, metropolitan area,	fire-making fire vegetation, cooking, Neolithic revolution, kiln
conurbation, evolution of the metropolis 1965 Sept p 64-74	furnace, heat, introduction to single-topic issue on heat 1954 Sept p 52-57
land use, population density, shantytowns, taxation, government	primates, oreopithecus, orepithecus in lineage of Homo sapiens
regulation, urban planning, cities, control of land use 1965 Sept p 150-160	1956 June p 91-100
urban renewal, slums, cities, relocation, eminent domain, urban	anemia, sickle cell disease, hemoglobin S, malaria hematology, adapine
planning, U.S. experience with Federal subsidy of urban renewal	hanafite of cickle-cell anemia 1900 Aug P 07-74 (1003)
1965 Sept p 194–204	Neanderthal man, Neolithic archeology, Shanidar cave, layer by layer, 100,000 years occupation by man
shantytowns, Calcutta, cities, urbanization, caste, poverty, traffic, Calcutta, a city of the poor 1965 Sept p 90–102	Non-desthal man co-existence of Homo sapiens and
Calcutta, a city of the poor 1965 Sept p 90-102 shantytowns, squatters, land use, urban sociology, 'barriadas' of Lina,	Manndarthal man
Peru 1967 Oct p 21–29	science history, Neanderthal man, Devon caves, stone tools, idea of
building codes, building construction, construction technology	than's antiquity Garge cultural evolution, role of tool
1971 Mar p 16–25 [341] 1949 Mar p 27	making in biological evolution of man, introduction to single topic 1960 Sept p 62-75 [60]
Housing and Urban Development, new US cabinet office established	1700 Sept p
1965 Oct p 38	baboons, social behavior, comparative psychology, social anthropology, Kung bushmen, sexual behavior, origin of society
hovering flight, helicopters, rotary-wing aircraft, ram jet 1955 Jan p 36-40	1300 Sept P
aerodynamics, animal behavior, bird flight, insect flight, clap-fling	communication, speech, language, origin of speech 1960 Sept p 88-96 [603]
mechanism flin mechanism, lift generation	anthropology, steatopygia, climate, human migration, race, population,
[6/2 Nov b 80-8/ [1331]	genetic variation, ancient migration and human diversity
Hubble constant, 'big bang' theory, cosmic background radiation, ether	1300 gcbr b -
drift, anisotropy in 3-degree Kelvin radiation 1978 May p 64-74 [3008]	agricultural revolution, Fertile Crescent, cultural anthropology, Neolithic archeology, 8000 B C domestication of plants and animals 1960 Sept p 130-148 [605]
astrophysics, red shift 1972 Feb p 41	Neolithic archeology, 8000 B C domestication of paints and 1960 Sept p 130–148 [605]
hull design, marine engineering, yacht design, towing tank tests, sail	social evolution, social behavior, cities, urban revolution 1500 B C 1960 Sept p 153–168 [606]
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medical history, Galen, Galen, work and influence 1957 Mar p 105-114	demographics, population growth, cultural evolution, agricultural
neuronsychology, eye, ear, Descartes, 17th c	revolution, Industrial Revolution, popular la server et lived
	perspective on human population growth, now many even human population growth growth, now many even human population growth gr
	genetic adaptation, natural selection, civilization, culture, human evolution in man-made environment 1960 Sept p 206-217 [609]
knee joint, surgical prosthesis, surgical replacement of the knee joint 1978 Jan p 44-51 [1378]	evolution in man-made chynomics.
. 1954 Apr p 40	hand, toolmakers, hominid, evolution of the human nanu 1962 Dec p 56-62 [140]
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asocial behavior, behavioral psychology, criminal and the criminal law criminology, milieu therapy, behavioral science and the criminal law 1963 Nov p 39-45 [480]	
criminology, milieu therapy, ochavioration 1963 Nov p 39–45 [480]	Australopithecus, Gigantopithecus, nominio, ponisios 1070 Ian p. 76-85
epidemiology, bubonic plague, public health, Black Death, population history, long-term effects of plague, Europe 1348-50 1964 Feb p 114-121 [619]	1971 Apr p 30-40
history, long-term effects of plague, Europe 1964 Feb p 114-121 [619]	apes, fossil primates, population genetics, genetic variation 1972 Jan p 94-103 [676]
child development, cognitive development, infant perceptions, 1972 Mar p 74-82 [542]	n - manufactis
discrepancy principle	hominid, Miocene fossils, primate evolution, Ramaphinecus 1977 May p 28-35 [695]
behavioral regression, child development, cognition p 38-47 [572] infant perceptions, learning 1976 Nov p 38-47 [572]	hominid, Olduvai Gorge, toolmakers, foodsharing evolution of
m v C dation included to 1000 Oct n 63	behavior, evidence for protonalitati of the policy and policy of 108 [/00]
assembly assembly assembly assembly 1968 June p 46	sites 1950 Feb p 28 man-ape thumb 1955 Mar p 56
bystander intervention in 'emergency' bystander intervention in 'emergency' human brain, African hominids, brain evolution, fossil hominid brains, human brain, African hominids, brain evolution, fossil hominid brains,	Makapansgat cave 1956 Apr p 61
hominid, ponglu biams, with 1074 hily p 100-115 1000)	Oreopithecus physical anthropology, effect of diet on hereditary features 1958 Aug p 52
a names theory probability, zero-sum game, military	and all a NA
	Australopitheous and Parantinopo, 1960 July p 85
a olistion man-appear a tolistics of	Olduvai Gorge fossil 1962 May p. 76
Paranthropus, primates, hominids branched from 1948 May p 16–19	Fact Terran nrimate total form of 10
million years ago Homo sapiens, Neanderthal man, Charente skull, Galley Hill skull Homo sapiens, Neanderthal man, Charente skull, Galley Hill skull Homo sapiens	Olduvai Gorge Homo habilis Olduvai Gorge Homo habilis natural-selection intensits appraised natural-selection intensits appraised natural-selection intensits appraised substitution in hemoglobin chains
Homo sapiens, Neanderthal man, Chaterno Swanscombe cranium, antiquity of Homo sapiens 1948 July p 16-19	natural-selection intensity appraised man ape phylogens by amino-acid substitution in hemoglobin chains into the high
man-apes, Homo, Australopithecus, Paranthropus Plesianthropus 1949 Nos. p. 20-24 [832]	
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oldest Frenchman	1971 Dec p 42	tests of 'enriched' food	1972 Jan p 50
Homo erectus in Australia	1972 Oct p 48	polyunsaturated beef	1973 May p 43
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Ramapithecus antecedent to Homo erectus	1976 May p. 56	ACTH, hormone, sexual characteristics, gr hormone, follicle-stimulating hormone, j	owiii, iiiyioid-siiiiiulatiiig
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toolmakers, bones found near Olduvzi Gorge		chemical integrators of the body	1957 Mar p 76–88 [1122]
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vision, glaucoma, iridectomy, blindness	1959 Aug p 110–117	of insulin	1958 May p 99-106
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'cortical satiation'	1962 Jan p 44-49		1959 Mar p 54-58
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numan reces, copromes, diet, numan nutruon,	1975 Jan p 100–109 [687]	asphyxia, breathing, diving bradycardia, re	
human migration, New World archeology, Bern		diving mammals, diving birds, hibernati	
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l	960 Sept p 112–127 [604]	sarcoplasmic reticulum, functions deduc	
pottery, navigation, Japan, Ecuador, New W	1966 Jan p 28–35	exercise adaptation, breathing, heart, blood	1965 Mar p 72–80 [1007]
for 3,000 B C trans-Pacific contact New World archeology, Onion Portage site,		exciteise adaptation, breathing, heart, blood	1965 May p 88–96 [1011]
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	1968 June p 24-33	vital capacity, mechanics and physiology	of breathing, anatomy of
US population, population redistribution,	US census,	lung	1966 Feb p 56-68 [1034]
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development	1963 Sept p 72-80 [1153]	expenence in an Indian village	1970 July p 106-114 [1184]
atherosclerosis, cardiovascular disease, arte	nes, epidemiology,	food production, fertilizers, pollution, irrig	ation, biosphere, agricultural
cholesterol, coronary occlusion, diet, lipic	us, piaque, artery wan 1966 Aug p 48–56	revolution, soil erosion, biosphere capac	ily to produce food
malnutration, food supply, human population		demographic transition, economic develop	1970 Sept p 160-170 [1196]
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agneulture	1976 Sept p 50-64	foreign aid, technology transfer, developing	1974 Sept p 160-170
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numan subjects, common cold, virus disease, chilli	ng test. Salisbury	
England, Study	1951 Eab - 20	chromosome doubling, colchicine, plant genetics 'cataclysmic 45 evolution'
group behavior, social psychology, conformity,	מדמנות הדפכניוים	1951 Apr p 54-39
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midified consent, medical ethics, medical resear	rch 1976 Feb p 25-	piant breeding, origin and perfection of wheat 1953 July p 50-59 DNA, RNA, ribosomal RNA, gene transcription, gene complement,
oud monvations	1954 Nov - 4	density-gradient centrifugation, DNA-RNA hybridization
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Bohr	1956 Mar p 93-10	mouse and normal human cells 1968 Jan p 51
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immune system, lymphocytes, thymus 1974	Nov p 58-72 [1306	Food and Agriculture Organization supplies seed to Europe and
humus, soil conditioners, polyacrylates, polyvinylite	es, cellulose, tilth	Middle East 1948 July p 31
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Incaparina, eland, capybara, manatee, mussels,	developing countries,	1969 May p 21-29
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appropriate and an appropriate or solve appropriate or	1976 Sept p 30–39	regulation, carbon dioxide as 'sex gas' 1959 Apr p 145-156
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hunter-gatherer societies, climate, cultural evolution,		hydration, water, ice, hydrogen-ion migration snow crystals hydrogen bonds, physical and chemical properties 1956 Apr p 76-89
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deer, food supply, population control	1954 Feb p 84-90 955 Nov p 101-108	concrete hydraulic press, ultrahigh-pressure technology 1960 Apr p 90
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	1951 Mar p 5660	race, whites, IQ, heredity, American Negro, here genetics, science policy, social psychology, twi	Me billioning to a series
circulatory system, thermoregulation, cold	adaptation, fur, metabolism	discrimination 19	70 Oct p 19-29 [1199]
	1966 Jan p 94–101 [1032]	the state of the s	endocranial casts
insulin, amino-acid sequence, protein structur	1955 May p 36-41	paleoneurology 19	76 Jan p 90-101 [568]
amino-acid sequence, sugar metabolism, ce		intelligence quotient, see 10	1951 June p 64-68
physiology action of insulin	1958 May p 99-106	intelligence test, animal behavior, problem box	1970 Nov p 44
protein structure, ribonuclease, amino-acid	sequence, enzyme action,	IQ, challenged on cultural bias	ith
myoglobin, resolution of atomic structur	e of three molecules	intelligence test scores, school attendance, US you	
• •	1961 Feb p 81-92 [80]	intelligent life, evolution, astronomical probabilitie	c The thesis man is
actinomyosin, ecdysone, cortisone, estroge	ns, gene activation, KIVA		
synthesis, aldosterone, growth hormone,	1965 June p 36-45 [1013]	Inteleat, artificial satellite, communication satellite,	77 Feb p 58-73 [353]
mechanism of hormone action automatic synthesis, protein synthesis, ami	no acids, peptide bond,	Communications Safellife ACI (1987)	11 7 00 5
'solid phase' method of synthesis, polyst	vrene beads	intensive care, cardiac arrhythmia, coronary care in coronary occlusion, electrocardiography, nerve	conduction heart
Solid plase meases of systems of the	1968 Mar p 30-74 (320)		
human protein synthesized	1966 Apr p 50	acute respiratory failure, tracheostomy, lung, also	colar collapse,
automatic synthesis	1966 Dec p 58 1969 Oct p 47	acute respiratory failure, tracheostomy, fung, and emphysema, pathogenesis and treatment of act	1969 Nov p 23-29
three-dimensional structure determined		t and automatic	nell noncultural
integrated circuits, memory circuits, compute		intercalary water, irrigation, ground water, artesian technology, Sahara desert, water resource man	gement, land
computer electronic components industry, transistor,	microelectronics, silicon	technology, Sanara desert, water resource	1066 May p 21-29
(mlasma)	1302 HOT P 20 10	reclamation, 'fossil' water, making desert fertile intercalated crystals, BCS theory, crystal structure, the intercalated crystals, compounds, superconductions and compounds.	electrical properties to
at water nomentar technology SV	vitching elements, logic	metals, intermetallic compounds, superconduct	1971 Nov p 22-33
circuits, computer memory, microelectro	1966 Sept p 74-85	superconductors intercellular communication, cell membrane salivary	eland epithelium
oxide semiconductors, magnetic core, comp	outer memory,	molecular signals membrane permeability, jun	ctions in cell
microelectronics, advent of integrated-ci	ICIII SCIIIICOIIGGOGG	molecular signals inclinorance permanent	May p 78-86 [1178]
		Illetitorane	manufact to CCCCS 1 (1)1)
metal-oxide semicondu	ctors, microelectromes,	ducis. Startings hypothesis 13mp. and	1963 June p 80-90
large-scale integrated circuits, logic circuits	1970 Feb p 22-31	body's 'second circulation	cost assessment
computer graphics, laser, computer technological	logy, computer modeling	price trends materials technology metals, plast	ics competition
		among malemals	967 Sept p 254-266
computer technology, USSR, software, C	1970 Oct p 102-108		ometry radio
		intercontinental ballistic mistic, see Februari intercontinental interferometry, radio source interferometry	1972 Feb p 72-83
electron optics, microcircuit fabrication, co fabrication, silicon 'chips', computer tecl	prology 1972 Nov p 34-44	telescope, long-base interferometry interdisciplinary collaboration, molecular biology ph	control chemistry
	1110102)		
late amitting diode, liquid crystals, Nixie t	tubes, numeric displays	antigen-antibody reaction collaboration of G	1040 May 0 16 21
light-emitting diode, liquid crystais, reste	tubes, numeric displays	antigen-antibody reaction contained of a	1949 May p 16 21
light-emitting diode, inquid crystais, 171500	1973 June p 64-73 ucs silicon 'chips', transistor	antigen-antibody reaction contained of a	optics
light-emitting diode, inquid crystais, resident metal-oxide semiconductors, microelectron	iubes, numeric displays 1973 June p 64-73 ucs silicon 'chips', transistor 1973 Aug p 48-57	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdu	optics iction to single top c 1968 Sept. p. 50-59
light-emitting diode, inquid crystais, resident metal-oxide semiconductors, microelectron	iubes, numeric displays 1973 June p 64-73 ucs silicon 'chips', transistor 1973 Aug p 48-57	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdussue on light coherent radiation. Brillouin scattering energy leve	1949 May p. 16. 21 optics action to single top c. 1968 Sept. p. 50. 59 ds. Liser hebt. 165 Sept. p. 120. 136
metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons	uibes, numeric displays 1973 June p 64-73 uics silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdussue on light coherent radiation. Brillouin scattering energy leve	1949 May p. 16-21 optics action to single topic 1968 Sept. p. 50-59 ds. Liser light 264 Sept. p. 120-136
light-emitting diode, inquid crystais, rester- metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons circuits metal-oxide semiconductors, microcomput	1973 June p 64-73 ucs silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35 ers, microelectronics, 'chips' 1975 May p 32-40	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introduction light coherent radiation. Brillouin scattering energy leve acoustic holography, laser, sound waves holography	optics action to single top c 1968 Sept. p. 50-59 ds. Liser light 268 Sept. p. 120-136 Sept. p. 120-136 s. acoustic imazing 1979 Oct. p. 37
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light-emitting diode, inquid crystais, former metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons circuits metal-oxide semiconductors, microcomput microprocessors, minicomputers, silicon light prochet calculations metal-oxide computer, pocket calculations are computer, pocket calculations and processors are computer, pocket calculations and processors are computer, pocket calculations are calculated as a computer of the calculation and processors are calculated as a computer of the calculation and calculations are calculated as a calculation and calculations are calculated as a calculation and calculations are calculated as a calculation and calculated as a	inbes, numeric displays 1973 June p 64-73 incs silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35 ers, microelectronics, 'chips' 1975 May p 32-40 culator, memory	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introduction on light coherent radiation. Brillouin scattering energy leve acoustic holography, laser, sound waves holography nondestructive testing, medical diagnosis interference fringes, electron wave particle duality, diffraction. Division Germer experiment	1949 May p. 16-21 optics action to single topic 1968 Sept. p. 50-59 dis Fiser light 368 Sept. p. 120-136 a acoustic imazina 1979 Oct. p. 36 diffraction electron 1948 May p. 45-53
light-emitting diode, inquid crystais, restor- metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons circuits metal-oxide semiconductors, microcomput- microprocessors, minicomputers, silicon calculating machine, computer, pocket calc	inbes, numeric displays 1973 June p 64-73 its silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35 ers, microelectronics, 'chips' 1975 May p 32-40 initial films are silicon 1976 Mar p 88-98 inclosed innovation, silicon	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdustation light coherent radiation. Brillouin scattering energy leve acoustic holography. Inser, sound waves holography nondestructive testing, medical diagnosis interference fringes, electron wave particle duality, diffraction Division Germer experiment standard of length interferometry, mercury 199	1949 May p. 16-21 optics action to single topic 1968 Sept. p. 50-59 dis liser light 1968 Sept. p. 120-136 acoustic imazina 1979 Oct. p. 34 offraction electron 1948 May p. 45-53 or are further topic.
light-emitting diode, inquid crystais, former metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons circuits metal-oxide semiconductors, microcomput microprocessors, minicomputers, silicon calculating machine, computer, pocket calculating machine, computer, pocket calculatings, introduction to single-topic issue	iubes, numeric displays 1973 June p 64-73 iucs silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35 ers, microelectronics, 'chips' 1975 May p 32-40 culator, memory 1976 Mar p 88-93 cological innovation, silicon on microelectronics 1977 Sept p 62-69 [374]	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdussue on light coherent radiation, Brillouin scattering energy leve acoustic holography, laser, sound waves holography nondestructive testing, medical diagnosis interference fringes, electron wave particle duality, duffraction Division Germer experiment standard of length interferometry, mercury 19% interference patterns, holography memory learning to the property of the property of the standard of the stan	1949 May p. 16-21 optics action to single topic 1968 Sept. p. 50-59 els. Liser light 1968 Sept. p. 120-136 acoustic imazing 1979 Oct. p. 37 diffraction electron 1948 May p. 45-53 or in function in Sept. p. 120-136 Sept. p. 120-136 Sept. p. 120-136 Sept. p. 120-136 Sept. p. 16-136 Sept.
light-emitting diode, inquid crystais, former metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons circuits metal-oxide semiconductors, microcomput microprocessors, minicomputers, silicon calculating machine, computer, pocket calculating machine, computer, pocket calculatings, introduction to single-topic issue	iubes, numeric displays 1973 June p 64-73 iucs silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35 ers, microelectronics, 'chips' 1975 May p 32-40 culator, memory 1976 Mar p 88-93 cological innovation, silicon on microelectronics 1977 Sept p 62-69 [374]	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdussue on light coherent radiation, Brillouin scattering energy leve acoustic holography, laser, sound waves holography nondestructive testing, medical diagnosis interference fringes, electron wave particle duality, duffraction Division Germer experiment standard of length interferometry, mercury 19% interference patterns, holography memory learning to the property of the property of the standard of the stan	1949 May p. 16-21 optics action to single topic 1968 Sept. p. 50-59 dis liser light 1968 Sept. p. 120-136 acoustic imazina 1979 Oct. p. 34 offraction electron 1948 May p. 45-53 or are further topic.
light-emitting diode, inquid crystais, restor- metal-oxide semiconductors, microelectron laser light manipulation, light propagation optical devices, optical circuits, photons circuits metal-oxide semiconductors, microcomput- microprocessors, minicomputers, silicon calculating machine, computer, pocket calc	iubes, numeric displays 1973 June p 64-73 iucs silicon 'chips', transistor 1973 Aug p 48-57 in thin films thin-film instead of electrons in 1974 Apr p 28-35 ers, microelectronics, 'chips' 1975 May p 32-40 culator, memory 1976 Mar p 88-93 cological innovation, silicon on microelectronics 1977 Sept p 62-69 [374]	interference, diffraction light, wave particle duality, electromagnetic waves photon emission introdussue on light coherent radiation, Brillouin scattering energy leve acoustic holography, laser, sound waves holography nondestructive testing, medical diagnosis interference fringes, electron wave particle duality, duffraction Division Germer experiment standard of length interferometry, mercury 19% interference patterns, holography memory learning to the property of the property of the standard of the stan	1949 May p. 16. 21 optics action to single topic 1968 Sept. p. 50. 59. 618 Tiser light 1968 Sept. p. 120. 136 acoustic imazing 1979 Oct. p. 37. 47. 47. 47. 47. 47. 47. 47. 47. 47. 4

interferometry, standard of length, mercury 1	98, interference fringes	nuclear power, 'atomic pool' proposal	1955 Apr p 31–35
	1948 Aug p 48-53	pollution control, jurisdictional disputes, oceano	
ultrasonics, emulsification, nondestructive	testing, sonar	management, international competition and c	
	1954 May p 54-63		Sept p 218–234 [888]
radio telescope, radio, helical antenna	1955 Mar p 36-43	International Council of Scientific Unions, continu	
artificial satellite, orbital motion, antennae	, radio astronomy, tracking	collaboration	1960 Apr p 83
station, satellite tracking	1958 Jan p 23-29	International Geophysical Year, see I G Y	1049 Oct = 25
solar system, moon, planets, ionosphere, ra	idar astronomy, technology	International Social Science Institute, UNESCO	
and promise of radar astronomy	1960 Aug p 50-59	International Year of Quiet Sun, solar research	1964 Dec p 62
ether drift, luminiferous ether, special relat	ivity, speed of light,	interneuron, central nervous system, reflex arc, neu	
Michelson-Morley ether-drift experimen	it 1964 Nov p 107–114	muscle contraction, nerve inhibition, motor no	1966 May p 102–110
holography, laser, wave-front reconstruction	on, lensless laser	Renshaw cell, synapse nervous system, vision, reflex arc, motor neuron.	
photography	1965 June p 24–35 [300]	small neuron systems as models for study 196	, ammar ochavior, 37 May p. 44-52 [1073]
cesium clock, length standard, mass standa	1968 June p 50–62	interpersonal relationships, group behavior, social	
temperature standard, measurement		interpersonal relationships, group behavior, social	1955 Mar p 31–35
spectroscopy, Fraunhofer lines, prism, ligh	1968 Sept p 72–82	social psychology, self-disclosure, idiosyncracy i	
diffraction grating, Girard grid	raphies image formation	social psychology, sen-disclosure, idiosynoracy i	1958 May p 77–82
camera, lens design, telescope, computer g	1968 Sept p 96–108	adolescence, conformity, social psychology, U S	
light microwaves, interstellar matter, maser, hyd		adolescents, conservator, contact populations, con	1958 June p 25-29
astronomy, energy levels, protostars	1968 Dec p 36-44	interplanetary fields, cosmic radiation, interplaneta	
earthquake prediction, laser, strain gauge,		magnetosphere, solar flares, solar wind, auror	
car inquite prediction, inser, strain Basse,	1969 Dec p 88-95	solar system	1975 Sept p 160-173
thin-film optical devices, fluorescence, wa		interplanetary navigation, spacecraft, orbital motio	n, rocket,
monomolecular films, fatty acids	1970 Mar p 108-119	communication technology, navigation, techn	ology of space
coated optics, optical interference coating		navigation	1960 Mar p 64-73
transmission, dielectric mirrors, laser	1970 Dec p 58–75	Mars, navigational accuracy, spacecraft navigati	on, Viking missions
radio source, intercontinental interferome	try, radio telescope, long-		1976 June p 58-74
base interferometry	1972 Feb p 72–83	interplanetary particles, cosmic radiation, interplan	
interferon, virology, virus interference, broa		magnetosphere, solar flares, solar wind, auror	
agent	1961 May p 51-57 [87]	solar system	1975 Sept p 160-173
virology, virus interference, nucleic acid, i		interplanetary radar-ranging, gravity constant, luna	
found to act against foreign nucleic acid		orbit, relativity theory, evidence for decrease	
blood plasma, collagen, cell-surface antig		constant	1976 Feb p 44-52
molecule	1974 May p 78–86 [1295]	interplanetary space, Mars, Mariner 4, magnetosph	
anti-viral agent	1958 Aug p 48	trapped radiation, atmosphere, solar wind, co exploration	1966 May p 62-72
antiviral roles of interferon interferon	1963 Sept p 84 1972 Oct p 47	interstellar chemistry, hydroxyl radical	1964 Nov p 60
interferon induction, poly I C, synthetic RN	_	ammonia molecule detected	1969 Feb p 42
mereron moderion, pory 1°C, symmetic for	1971 July p 26–31 [1226]	water molecule detected	1969 Apr p 50
medical care, virus disease	1977 Apr p 42–50	for maldehyde molecule detected	1969 May p 53
synthetic polymers	1968 Feb p 52	carbon monoxide molecule detected	1970 June p 49
intergalactic bridges, galactic interactions, g	galaxy shapes, intergalactic	hydroxyl radical detected	1971 Sept p 80
tides, gravitational dynamics	1973 Dec p 38-48	ethyl alcohol	1974 Dec p 66
intergalactic tides, galactic interactions, gala		interstellar clouds, Bok globules, gravitational insta	abılıty, ınterstellar
dynamics, intergalactic bridges	1973 Dec p 38-48	dust, stellar formation, local galaxy	977 June p 66-81 [366]
interindustry transactions, input-output ana		interstellar communication, extraterrestrial intellig	ence, origins of life,
inverted coefficient, matrix algebra, 19		planetary systems, cyclops project 19	975 May p 80-89 [347]
economy	1951 Oct p 15–21	Project Ozma Project Ozma	1960 Jan p 74
economics, input-output analysis, US economics input-output analysis, US economics input-output analysis, US economics input-output analysis, US economics in put-output analysis in put-output ana		interstellar dust, light polarization, interstellar gas,	1960 Nov p 97
Department of Commerce input-outpu	1965 Apr p 25–35 [624]	intersterial dust, fight polarization, intersterial gas,	1967 Oct p 106–114
intermediate vector boson, neutrino, cosmic	radiation neutrinos solar	Bok globules, gravitational instability, interstella	r cloude steller
neutrinos, scintillation counter boson,	detection of natural neutrinos	formation, local galaxy	977 June p 66-81 [366]
	1966 Feb p 40-48	interstellar gas, pleiades, stellar evolution, stellar c	luster, mass and
intermetallic compounds, BCS theory, cryst	tal structure, electrical	motion in and of clusters clues to formation	indian, mass and
properties of metals intercalated crys	tals, superconductors, layered	19	62 Nov p 58-66 [285]
superconductors	1971 Nov p 22–33	light polarization, interstellar dust, protostars	1967 Oct p 106-114
intermolecular force, electromagnetism, me	olecular physics, Coulomb	color photography, emission nebulae, ionization	, nebular luminosity
force, measurement of intermolecular bodies			1974 Oct p 34-43
	1960 July p 47–53	black hole, magnetohydrodynamics neutron sta	rs, pulsar, stellar
internal combustion engine, atmospheric en Langen engine, history of Otto engine	ngine, stratified charge, Offo-	evolution, supernovae, X-ray sources	1975 Dec p 38-46
energy transformation, energy demand,	1967 Mar p 102–112	magnetic field, radio 'photographs', Doppler shi and filaments rather than clouds	ft, structured in shells
power, prime movers steam turbines,	magnetohydrodynamics gas	interstellar by drogen, Mella, West, and a start	978 Jan p 74-84 [394]
turbine, fuel cell, solar cells, power, no	uclear nower, comparatu e	interstellar hydrogen, Milky Way, spiral galaxies, r	adio astronomy
efficiencies of energy transformation	pathways in industrial	galaxy, radio astronomy, radio star, the radio sk	1955 May p 42–48
Civilization	1071 Come - 140 160 [660]	spiral structure radio astronomy, galaxy, galacti	1956 July p 32–37
internal drift-tube accelerator, linear accele	erator, electron accelerator,	iocai Gaiaxy	50 Aug - 44 E1 17501
traveling wave accelerator	1054 (200 - 40 44 (224)	radio astronomy, galaxy, spiral arms, mapping il	he spiral arms of the
internal opintes, brain function, drug actic	on, drug addiction,	local Galaxy	1050 Dan - 02 104
endodorphins, enkephalins opiate re		galactic evolution microwaves radio astronomy	, hydrogen in palaries
International Astronomical Union, meetin	1977 Mar p 44–56	correlated with their difficults	1069 to
International cooperation, Atomic I perm	A at	interstellar matter, Palomar Observatory, cosmolog	re madelle feet at 11
Heching minut vectors, increasing	73 000000000000	populations galactic evolution. Hale telescond	, first yield from 200
provisions of Atomic Energy Act of	1954 1954 Nov p 31–35	inch telescope	1952 Feb p 43-51
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photocell, light amplification, photomultiplier, variable stars, stellar temperature 1952 Mar p 56-55	plasma jet, jet velocity, cesium-ion beam, magnetohydrodynamics, electrical propulsion, space exploration 1961 Mar p 57-65
nyurogen, radio astronomy. 21-centimeter line 1052 Dog = 42.44	
ultraviolet radiation, cosmic dust grains, hydrogen 1955 Nov p 72-80 spectroscopy, radio astronomy, hydrogen, absorption line, 21-	' ingn-energy physics 1949 Mar n 28-39
centineter wave absorption 1057 tule - 40 55	ionic bonds, covalent bonds, hydrogen bonds, Van der Waals force long
microwaves, maser, hydroxyl radical, infrared astronomy energy levels	range forces, chemical bond, antigen-antibody reaction, proposed
protostars, interferometry 1968 Dec. 25 AA	intermolecular long-range force 1948 Oct p 14-17 solid state physics, crystal structure, X-ray diffraction, covalent bonds,
galaxy structure, Milky Way, stellar formation, supernovae, galactic	metallic bonds, molecular bonds, energy levels, the nature of solids
dust clouds, nebulae, Gum Nebula, Bok globules 1972	1952 Dec p 39-49 [249]
Aug p 48-61 astrochemistry, molecular spectra, space exploration, local galaxy	aluminates, materials technology, ceramics, crystal structure silicates,
1973 Mar n 50-60	heat resistance, covalent bonds, nature of ceramics
cosmology, heavy hydrogen catto, deuterium synthesis,	ionization, lightning thundercloud, physics of the lightning bolt 1949 Feb p 22-27
supernovae, shock waves, gravitational collapse, stellar formation, stellar evolution, birth of massive stars 1978 Apr p 110-118 [3005]	ball lightning, nuclear fusion, gas plasma, Kapitza theory, Hill theory
maser, cosmic masers, hydroxyl maser, water maser, maser star,	1963 Mar p 106-116
astrophysics, quantum mechanics, 'nature imitates art'	ammonia, solvated electrons, radiolysis, radiation chemistry, sodium alkali metals 1967 Feb p 76-83
1978 June n 90-105	color photography, emission nebulae, interstellar gas, nebular
stellar formation, variable stars, infrared radiation, lithium, youngest	luminosity 1974 Oct p 34-43
interstellar radiation, formation of interstellar infrared radiation	ionized-hydrogen cloud, Gum Nebula, Milky Way, Stromgren sphere
1967 Oct p 60	1971 Dec p 20-29 ionizing radiation, photoelectric effect, Compton effect, chemical effects
intracellular parasite, toxoplasmosis, parasitism, infectious disease.	cytology, free radicals, lethal effects of radiation 1951 Dec p 22-25
encephalitis, insect vectors 1953 Feb p 86-92	poisons, radioautography, 'bone-seekers', chelate, scintillation counter
intrauterine device, employed for bovine birth control in India	1955 Aug p 34-39
intravenous feeding, human nutrition, medical care, synthetic diet	mutation, recessive gene 1955 Nov p 58-68 [29] environmental pollution, background radiation, nuclear medicine
1972 May p 73–80	atomic bomb test, introduction to single-topic tissue on ionizing
total nutrition 1971 May p 51	radiation 1959 Sept p 74-83
intuition, geometry, foundations of mathematics, Hans Hahn on	atomic bomb test, isotopes fallout, environmental pollution nuclear medicine, circulation of radioisotopes 1959 Sept p 84-93
geometry and intuition 1954 Apr p 84-91 invariant/variable dyad, verbal communication, communication, acoustic	medicine, circulation of radioisotopes 1959 Sept p 84-77 chromosome breakage, radiation damage, mutation, cytology
formants, phonetics, markedness/unmarkedness dyad, morphemes,	radiation damage to living cell 1959 Sept p 94-100 [57]
syntax, context sensitivity 1972 Sept p 72-80	atomic bomb test, radiation damage, leukenua, immune response,
invention, creativity, industrial research, applied science, solid state	fallout, nuclear medicine, radiation damage, whole-body irradiation 1959 Sept p 117-137
physics, Bell Laboratories solid-state physics 1958 Sept p 116–130 commerce, technology, patent-law reform 1967 June p 19–27	evolution, mutation, radiation-induced mutation in evolution
inversion layer, cloud seeding, water cycle, air pollution, water drop, ice	1959 Sept p 138-160 [55]
crystals, fog, smog 1968 Dec p 74-82 [876]	cancer therapy, isotopes, X-ray, radiotherapy, dosimetry,
inverted coefficient, input-output analysis, interindustry transactions,	roentgenology, nuclear medicine, radiation use in medicine 1959 Sept p 164-176
input-output coefficient, matrix algebra, 1947 input-output table of US economy 1951 Oct p 15-21	free radicals, notymerization, organic chemistry, ignizing radiation in
investment, economic development, Japan, employment policy, debt	industrial chemistry 1939 Sept. p. 1930 Sept
financing, government-business relations, Japan's economic growth	metals, crystal structure, solid state physics, displacement of crystal structure by radiation 1959 Sept p 200-213
1970 Mar p 31-37 Io, Galileo, Jupiter, Jovian satellites, solar system, Europa, Callisto.	environmental pollution, fallout, atomic bomb test, radiation damage
Ganymede 1976 May p 108-116	mutation mubble health hazards of radiation to society
iodine, trace elements, iron, manganese, zinc, copper, magnesium, human	1959 Sept p 219-232 (1214)
nutrition 1953 Jan p 22–25	leukemia, leukocyte, cancer, chemotherapy, tirus, Down's syndrome origin and treatment of lymphocytic and granulocytic leukemia
iodine deficiency, goster, hypothyroidism, epidemiology, thyroid, iodized salt 1971 June p 92-101 [1223]	1964 May p a 750
iodized salt, goster, hypothyroidism, iodine deficiency, epidemiology,	cosmic radiation, nuclear tracks, fission-track dating eithing
thyroid 1971 June p 92–101 [1223]	applications of charged-particle tracks in solids 1969 June p 30-39 fallout, radiation effects on human tissue cells 1957 Jan p 64
ion beam, spectroscopy, mass spectroscopy, separation techniques 1953 Mar p 68-74	no genetic damage threshold 1958 Aug p 45
crystal structure, channeling 1968 Mar p 90-98	ionosphere, upper atmosphere, stratosphere radio communication aurora, noctilucent clouds meteorology 1949 Jan p 30 39
chemical accelerators, molecular beam, sputtering, high-energy	Earth magnetic field lightning, radio 'u histlers' radio echoes of
chemistry 1968 Oct p 44-52 in claud meteories radio echo, spectroscopy 1951 June p 22-28	lightning 1956 Jan p 14 37
ion cloud, meteorites, radio echo, spectroscopy 1951 June p 22-28 ion exchange, alkalı, desalination, amino-acid separation	communication technology, radio, microwave transmission
1950 NOV p 46-31	troposphere, ionospheric and tropospheric scattering 1957 Jan p 46-51
distillation, water, desalination, solar still alternative technologies 1957 Mar p 37-45	climate neather salar and meteorology coronametry Earth's
molecular sieves, adsorption, separation of similar molecules	weather and solar wind 1957 Apr. p. 138–145 15471
1055 000 = 48	solar corona solar prominences, solar flares atmosphere coupling of solar and terrestrial atmospheres 1958 Aug p 33-41
metals from the ocean 1955 Oct p 48 1953 Jan p 36	amfigial satellite, climate, aurora borealis. Van Allen belts orbital
ion exclusion, separation include	motion, meteorology solar particle influence on Larth atmosphere 1959 Aug. p. 37-43 [25]
ion implantation, accelerated for technique, the semiconductor, 'doping'	interferometry, solar system moon planets radar astronom,
ion potential, cell membrane, nerve impulse, biological tole of potential, 1949 Aug. p. 16-21	technology and promise of radir astronomy 1969 Aug. P. 20. 22
to the state of th	Sun, solar eclipse solar flares chromosphere, ultrasiolet radiation Earth Sun chromosphere topic plere interaction
bioluminescence, membrane potential, plant etc. 1962 Oct p 107-117 [136] electricity in plants	Earth Surfentomisphate was prote meeting 19/21 ch p 30 11
ion propulsion, nuclear propulsion, nuclear rocker, space 35, 51	
rocket propulsion by nuclear reactions 1959 Stay p	

aurora borealis, geomagnetism, solar radiation, magnetosphere, solar	irrigation, Nabataean culture, wadı, desert, agrıcultural system,
wind, physics of the aurora 1965 Dec. p. 54-62	restoration of Nabataean irrigation works in the Negev
airglow, atmosphere, solar radiation, ozone, oxygen atoms, upper	1956 Apr p 39–45
atmosphere, laboratory simulation, atomic energy levels	Negev desert, desert ecology, agricultural technology, land reclamation.
1966 Mar p 102–110	Israel, desert reclamation 1960 Mar p 54-63
plasma, solar radiation, Earth magnetic field, geomagnetism, barium	soil erosion, agricultural technology, poverty, economic development,
clouds, magnetosphere, electric field, artificial plasma clouds from	afforestation, Mediterranean Project, United Nations 1960 July p 86-103
rockets 1968 Nov p 80–92	
ionosphere reflection, long-range microwaves 1952 June p 36	economic development, Mekong river, monsoons, floods, hydro- engineering, rice, Mekong river plan, United Nations
ionospheric storms, Sun, solar flares, aurora, sunspots, geomagnetic	1963 Apr p 49–59
storms 1951 Dec p 17–21	economic development, industrialization, water supply, desalination,
solar corona, zodiacal light, Van Allen belts, solar prominences, solar atmosphere Farth in the Sun's atmosphere 1959 Oct p 64-71	water resource management, technology and economics of water in
atmosphere, Easter in the San	economic development 1963 Sept p 92–108
ionospheric winds, Earth, lunar tide, the ionosphere 1955 Sept p 126-138	ground water, artesian well, agricultural technology, Sahara desert,
• •	water resource management, land reclamation, intercalary water,
IQ: intelligence quotient IQ, intelligence, race, whites, heredity, American Negro, heredity,	'fossil' water, making desert fertile 1966 May p 21-29
population genetics, science policy, social psychology, twins,	sea water, salt-water agriculture, agronomy, and lands, salt tolerance
environment, racial discrimination 1970 Oct p 19–29 [1199]	1967 Mar p 89–96
intelligence test, challenged on cultural bias 1970 Nov p 44	ground water, tunneling, aqueducts, Iran, underground system, 3,00
Iran, Middle East oil, petroleum resources, energy economics, Persian	years old, still in use 1968 Apr p 94–105
Gulf fields, economic development, Iraq, Saudi Arabia	Arabia, trade, Near East, frankincense, myrrh, Biblical archeology,
1948 Sept p 9–15	cultures of southern Arabia 1969 Dec p 36-46 [653]
ground water, irrigation, tunneling, aqueducts, underground system,	human population, food production, fertilizers, pollution biosphere,
3.00 years old, still in use 1968 Apr. p 94–105	agricultural revolution, soil erosion, biosphere capacity to produce
Iraq, Middle East oil, petroleum resources, energy economics, Persian	food 1970 Sept p 160–170 [1196]
Gulf fields, economic development, Iran, Saudi Arabia	China, economic development, rice, hybrid wheat, agricultural
1948 Sept p 9–15	technology, hybrid rice, livestock 1975 June p 13–21
iridectomy, vision, glaucoma, blindness, human eye	center-pivot irrigation, ground water, agricultural technology
1959 Aug p 110–117	1976 June p 90–99
iris, eye, rod cells, cone cells, retina, optogram, rhodopsin, camera,	'green revolution', India, food and agriculture, technology transfer, monsoons, fertilizers, rice, agronomy, wheat, hybrid crop plants
anatomy and physiology of the eye, camera as metaphor 1950 Aug p 32-41 [46]	1976 Sept p 154–163
Irish families, cultural patterns, Italian families, schizophrenia,	agricultural resources, gene manipulation, photosynthesis, food and
schizophrenia and culture 1957 Aug. p 103–110	agriculture 1976 Sept p 164–178
Irish potato famine, potato blight, social influence of the potato	drip irrigation, trickle irrigation, agricultural technology
1952 Dec p 50–56	1977 Nov p 62–68 [1371]
iron, trace elements, manganese, zinc, copper, magnesium, iodine, human	Ishango man, cultural anthropology, Mesolithic era, harpoon, African
nutrition 1953 Jan p 22–25	culture 10,000 B C 1962 June p 105–116
magnetism, magnetic domains, cobalt, ferrites 1955 Jan p 68-73	Isimila, Paleolithic culture, stone tools, cultural archeology, Old Stone
Iron Age, Bronze Age, ironworking history, metallurgy, carburizing,	Age site in Africa 1961 Oct p 118–129
quenching 1977 Oct p 122–131 [699]	island arcs, Earth crust continental evolution, volcanoes, sedimentation
Iron age culture, Bronze Age, rock paintings, Camunian culture,	origin of the continents 1955 Sept p 62–66 [816]
Mycenaean civilization, Italian rock carvings 1960 Jan p 52–59	continental drift, remanent magnetism, plate tectonics, ocean floor,
fron melting, direct-reduction processes fron ore, sponge fron, steel production 1976 July p 68–80	Wegener hypothesis re-stated with new evidence, age of rocks
production 1976 July p 68-80 iron-nickel alloy, Earth core, high-pressure technology, X-ray diffraction,	1963 Apr p 86–100 [868] earthquake zones, lithospheric subduction, mountain formation, plate
crystallography, core studies by analogy, diffraction patterns of iron	tectonics, sea-floor spreading, subduction zones, volcanic zones
alloys 1965 June p 100–108	1975 Nov p 88–98 [919]
iron-nickel phases, diamond, meteorites, Canyon Diablo meteorite, shock	domes, hot spots, plate tectonics, ocean rifts, plumes, volcanoes
hypothesis, asteroids, origin of meteorites 1965 Oct p 26-36	1976 Aug. p 46–57 [920]
iron ore, steel production, blast furnace, smelting, furnace smelting under	island chains, West Indies, New World archeology, Hispaniola, stone
pressure 1948 May p 54-57	artifacts, sea routes, seafaring hunters from Central America?
steel production, Labrador deposit 1948 Nov p 9-13	1969 Nov p 42–52 [652]
coal reserves, steel markets transportation, changing geography of steel	isobutane, ice crystals, desalination, sea-water freezing, heat of fusion,
1952 Jan p 44–53	freezing as alternative to distillation 1962 Dec p 41-47
mining, ore beneficiation low-grade ores, hematite, tacomite 1968 Jan p 28~35	isomerism, isotopes, bulk effect, organic chemistry, paths of atoms in chemical reactions 1957 Nov. p. 117-126 1851
direct-reduction processes from melting, sponge from steel production	
1976 July p 68–80	vision, visual pigments, opsin rhodopsin, vitamin A
Soviet magnetite fields 1960 Oct p 84	1967 June p 64-76 [1075] isoniazid, isotopes, tuberculosis, streptomycin, para-aminosalicylic acid
iron smelting, coal technology, technology history. Industrial Revolution	pharmacology, tracing action of TB drugs 1956 Nov p 135-144
blast furnace Newcomen engine 1974 Aug. p. 92-97	isoprene, butadiene, rubber synthesis, vulcanization latex, elastomers
ironworking history, Bronze Age, Iron Age, metallurgy, carburizing,	synthetic rubber, molecular structure 1956 Nov. p. 74-88
quenching 1977 Oct p 122–131 [699]	isostasis, Earth crust, mountain formation, granitization, ocean basins
Iroquois Confederacy, Amerindian, New World archeology, cannibalism	ocean Hoor, tectonic processes comprehensive review of
Onandaga tribe 1971 Feb p 32–42 [658] irradiated plastics, cross-linking improved 1954 Aug p 40	understanding (before acceptance of continental drift)
irradiated seaten by deeped at	1950 Max p. 32-41
irradiation standards, electromagnetic spectrum, microu ave dioxles	isostatic equilibrium, Earth mantle plastic zone, seismology, basalt,
microwave radiation risk estimation technology assessment	Mohorovicie discontinuity, plastic zone at depth between 37 and 155 miles
1072 Feb m 12 21	isotactic polymers, polymers, 'stereoregular' polymers polyethylene
irrational numbers, mathematics number theory, negative numbers	catalytic polymerization polypropylene, precisely constructed
Complex numbers mains 1004 cont = 50 co	1001 4 33 44 44.44
irregular galaxies, galactic evolution, universe, galactic clusters, irregular galaxies as clues to galactic evolution 1961 Feb p. 50–57	isothermal combustion, Carnot cycle Diesel engine, automobile engines
g indeed aveides to galactic evolution 1961 Feb p 50-57	Diesel's 'rational' engine 1969 Aug. p 108–117
	111-111

isotope dating, lead isotopes, radioisotope dating, strontium-rubidium	Japan, pottery, human migration, navigation, Ecuador, New World
ratios, geological and paleontological time dated by radioactive decay 1949 Aug p 48-	archeology, evidence for 3,000 B.C. trans-Pacific contact
ocean moor, sonar, seismology, sedimentary cores, Albatross voyage,	Ama, diving diving women Vores broothing business to the
Swedish deep-sea expedition 1950 Aug p 42- radioactive decay, solar system, meteorites, Earth crust, age of solar	basal metabolism, adaptation 1967 May p. 34-43
system 1957 Apr n 80.04 lie	economic development, employment policy, investment, debt
mantie rock dating by strontium isotope 1965 Mar n	financing, government-business relations, Japan's economic growth 1970 Mar p 31-37
isotope separation, gas separation, laser, laser-light pressure, radiation pressure, 'optical bottle', atomic and molecular beams	Japanese macaques, primate behavior, monkey, primate societies,
1977 Feb n 62.1	protocultural behavior, social status 1976 Oct p 96-106 [1345]
laser-excitation technique, light absorption, quantum mechanics,	1976 Israe a St
uranium enrichment 1977 Feb p 86-98 [35 isotope tracing, duck-billed platypus, lactogenesis, milk, mammal,	4] Jarmo site, agricultural revolution, radiocarbon dating archeology, case
synthesis of milk 1957 Oct p. 121 15	to village at Jarmo 1952 Oct p 62-66
isotopes, radioautography, molecular biology, cytology, use of	Homo erectus in family tree of H samens 1966 Nov p 46-53 600
radioisotopes in biological research A E C, U S Atomic Energy Commission makes isotopes available,	jawless fish, lamprey, pest control, Great Lakes, trout, whitelish
free, to cancer research 1949 Apr. n. 16-1	7 jazz musicians, strong sub-culture 1955 Apr p 36-41
periodic table, 'synthetic' elements, transuranium elements, table of	Jericha, Neolithic archeology, Biblical archeology, 'world's oldest cit'
elements, stable isotopes, first of a series of articles, recounting the completion of the table of elements (43 [technetium],	1954 Apr p 76-82
61[promethium], 85[astatine] and 87[francium]) and the first five	world's oldest town 1952 No. p. 48 Biblical archeology, oldest city 1956 No. p. 68
transuranic elements (93[neptunium], 94[plutonium], 95[americium],	Biblical archeology, from cave to village 1957 Sept p 116
96[curium] and 97[berkelium]) 1950 Apr p 38-47 [242 fission products, uses in science and technology 1952 June p 19-2	
thermonuclear reaction, element abundance, stellar evolution, universe	jet engines, zirconium, fission reactor, ilmenite 1951 June p 18-21
'synthetic' elements, particle accelerator, experimental astrophysics	jet flight, aerodynamics, aircraft-wake vortexes, contrails, flight safett
1956 Sept p 82-91 isomazid, tuberculosis, streptomycin, para-aminosalicylic acid,	
pharmacology, tracing action of TB drugs 1956 Nov p 135-144	time-zone effects 1969 Aug p 57
isomerism, bulk effect, organic chemistry, paths of atoms in chemical	iet liner. British Comet 1952 Aug p 33
reactions 1957 Nov p 117-126 [85] atomic bomb test, ionizing radiation, fallout, environmental pollution,	cycle polar front 1952 Oct p 26-31
nuclear medicine, circulation of radioisotopes 1959 Sept p 84-93	weather forecasting, long-wave forecasting 1955 Aug p 40-41
cancer therapy, X-ray, radiotherapy, ionizing radiation, dosimetry,	weather, thunderstorms, wind, squall lines, low-altitude jet streams 1961 Aug p 120-131
roentgenology, nuclear medicine, radiation use in medicine 1959 Sept p 164-176	iet velocity, 100 propulsion, plasma iet, cesium-ion beam,
ascites tumor, radioautography, cell life cycle, cellular autobiography	magnetohydrodynamics, electrical propulsion, space exploration
1963 Aug p 103-110 [165] alpha decay, transuranum elements, nuclear stability, beta decay,	incular physics, human language physics, broken English tribute to
radioactive decay, 'synthetic' elements, periodic table, the	Niele Pohr 1956 Mar P 75-10-
'superheavy' elements beyond 103 1969 Apr p 56-67	Jodrell Bank radio telescope, flare stars, radio astronomy, radio star solar flares, definitive evidence of radiowaves from stars
elements, radioactive decay, atomic nucleus, 'synthetic' elements, exotic isotopes of light elements 1978 June p 60-72 [3010]	1964 Aug p 15-17
Federation of American Scientists proposal 1949 Apr p 24	Johnson, melancholy hypochondriac 1951 June p 38
British exports ahead 1952 Dec p 38 labeled cortisone 1953 Aug p 46	Jordan Valley Plan, agricultural irrigation, canals hydro-engineering pipelines, water supply, Israel, Jordan 1965 Mar p 23-31
uses in medicine 1956 Sept p 111	Inconhect affects electric current superconductivity microwave
uses in agriculture and industry 1957 July p 64 isotropy, uranium lission, nuclear fission, fission products, 'synthetic'	emission tunnel junction, quantum mechanics confirmation and applications of Josephson effects 1966 May p 30 39
elements, radium, transuranium elements, science history, discovery	coherent matter waves 1965 June p of
of fission 1958 Feb p 76–84	Joshua trees, desert ecology mesquite creosote bushes 1955 Apr p 68-75 [114]
cosmology, universe expansion, cosmic background radiation, 'big bang' theory, low-energy radiowaves, primeval fireball, helium	Toute Corner Dumford coveres bistory heat moneers in the theory of
abundance, 'big bang' theory and cosmic background radiation	heat 1954 Sept p 66 61 journal bearing, bearing lubrication friction wear 1975 July p 50 64
1967 June p 28-37 Israel, comparative religion, ethnic groups, gene isolation, Judaism,	for the material funday planeters atmosphere planets solar system
Samantans Holon and Nablus communities	Great Red Spot Jovian moons, Great Red Spot liquid planets atmospheric creditation 1876 Mar. p. 46-56
1977 Jan p 100-108 [690] Italian families, cultural patterns, Irish families, schizophrenia,	Juniter, solar system 1975 Sept. p. 110 32
• • •	Jovian satellites, Galileo Jupiter solar system Turopa Callisto
Italy, Greek civilization, Cumae, Classical archeology, offic B C Greek	Indesem blood typing racial discrimination religious persecution seed
colony first in Italy	evolution genetic drift population genetics Jewish community
_	David San corolle New Covenanters, Richley I archeology, Outstan 115
/	1971 Nov p 14 C
January no particle charm	comparative religion ethnic groups pene institution Israel Samaritans
J particle, antimatter, electron-positron annihilation, psi particle, charm color, quark, high-energy physics, storage rings virtual particles 1975 June p 50-62	Holon and Nablus communities 1977 In p. 103 102 [6 8] junction diode, light emitting diode semicorductive liver electron from
color, quark, high-energy physics, storage man 1975 June p 50-62	and of the former and the first the state of
hadrons heavy leptons high-energy physics, quantum mechanics quark hypothesis intermediate vector bosons 1976 Jan p 44-54 1975 Jan p 48	Junction diode amplifiers, amplifiers sound reproduction transitor electronic circuitry pre
massive, long-lived puzzle	tomorphism termines termines a such amount to be electrical as a file
massive, long-lived puzzle Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra computer Jacquard Ioom, Bacon's cipher, binary code, Boolean algebra code, Boolean algebr	technology force at the tend in name of the start for the first force at the tend in name of the start for the first force at the start force at t
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germanium crystal, 'doping', triode 1952 July p 28–32	Kepler, musical scale, tone ladder, Pythagorean doctrine, music and
upiter, imme radical, hydrazine radical, frozen free radicals, low	mathematics, harmonic proportions, vibrating string
temperature physics modelling of Jupiter 1956 June p 119–128	1967 Dec p 92–103
Venus, solar system, planets, radio astronomy, measuring planetary	Kepler crater, lunar luminescence, moon, solar radiation, solar flares,
surface temperature 1961 May p 58-65	meteorites, impact of solar protons? 1965 May p 28–37 Kenler's laws, planetary motion, science history 1972 Mar p 92–106
Van Allen belts, radio emissions, magnetic field, origin of Jovian radio	Kepler's laws, planetary motion, science history 1972 Mar p 92–106 Kepler's supernova, supernovae, Chinese starcharts, Tycho's supernova,
waves 1964 July p 34-42	'guest stars', the seven observed supernovae 1976 June p 100–107
extraterrestrial life, infrared astronomy, Venus, atmospheric windows,	keratin, flagella, contractile proteins, myosin, epidermis, 'k m e f' group,
Mars, moon, spectrometry, history and recent results of infrared astronomy 1965 Aug p 20–29	motility in bacteria 1951 Jan p 20–24
astronomy Taylor column, Great Red Spot, planetary atmosphere, rotation	collagen, elastin, myosin, fibrin, cell, polymers, polymers in living cells
period, hydrodynamic explanation vs. raft hypothesis	1957 Sept p 204-216 [35]
1968 Feb p 74–82	evolution, horn, antler, osteogenesis, bone, ungulates, differences
Great Red Spot, liquid planets, Jovian moons, atmospheric circulation,	between horns and antlers 1969 Apr p 114–122 [1139]
solar system 1975 Sept. p. 118–126	X-ray diffraction, protein structure, alpha keratin, feather keratin
Jovian meteorology, planetary atmosphere, planets, solar system, Great	1969 Aug p 86–96 [1155]
Red Spot 1976 Mar p 46–30	heratin myosin epidermis flagella, see k m e f
Galileo, Jovian satellites, solar system, Europa, Callisto, Ganymede, Io	kerato-conjunctivitis, herpes simplex, treatment 1962 Apr p 80 Kerr cell, high-speed photography 1949 June p 48–49
1976 May p 108–110	Kerr cell, high-speed photography 1949 June p 48–49 Kerr effect, communication technology, laser, pulse-code modulation,
radio emissions 1955 June p 50	electron optics, Pockel's effect, polarization, modulators, modulation
Jovian Van Allen belt calculations 1960 July p 81 report from Pioneer 10 mission 1974 Feb p 42	of laser light 1968 June p 17–23
report from Pioneer 10 mission 1974 Feb p 42 jurisdictional disputes, pollution control, international cooperation,	Kerr gate, laser mode-locking, molecular motion, quantum mechanics,
oceanography, resource management, international competition and	Raman clock, ultrafast phenomena, picosecond molecular processes
cooperation 1969 Sept p 218–234 [888]	1973 June p 42–60
jury trial, crime, eye-witness testimony, perception, memory	kibbutz marriage patterns, exclude 'brothers' and 'sisters'
1974 Dec p 23–31 [562]	1972 Dec p 43
juvenile delinquency, its genesis 1950 Dec p 28	kidney, counter-current exchange, urine, nephron, glomerulus, osmosis,
by contagion from parents 1954 June p 50	anatomy and physiology of the kidney 1953 Jan p 40–48 [37]
personality of delinquent 1956 Aug p 57	desert rat, water balance, oxidation of food, how banner-tailed kangaroo rat survives without water 1953 July p 73-78 [1050]
juvenile hormone, insect metamorphosis, larvae, pupa, demonstration of hormonal control in silkworm moth 1950 Apr p 24-28	diabetes insipidus, thirst, salt excretion, electrolyte balance,
hormonal control in silkworm moth 1950 Apr p 24-28 entomology, silkworm, insect metamorphosis, hormone arrests	thermoregulation, urine, physiological psychology, osmoreceptor
development 1958 Feb p 67–74	theory of thirst, Cannon 'dry mouth' theory 1956 Jan p 70–76
insect metamorphosis, tissue differentiation, cellular specialization in	artificial kidney, dialysis 1961 July p 56-64
insect development 1959 Feb p 100–110 [63]	counter-current exchange, rete mirabile, heat conservation, physiology,
insecticide, balsam-fir factor, insect hormones, insecticide resistance,	swim bladder, gill, physics of a physiological invention
species specificity, DDT, third-generation pesticides	1957 Apr. p 96
1967 July p 13–17 [1078]	kidney calculi, crystal structure, lithiasis, X-ray diffraction, bladder
insect physiology, balsam fir factor 1965 Oct p 39 ecdysone synthesized 1966 May p 52	stones, gallstones, urinary calculi 1968 Dec p 104-111 kidney disorder, stress, psychosomatic illness, alarm reaction,
ecdysone synthesized 1966 May p 52	cardiovascular disease, adrenal gland 1949 Mar p 20–23 [4]
	anemia, brain damage, environmental toxins, blood disorders, lead
\mathcal{U}	poisoning, nerve disorders 1971 Feb p 15-23 [1211]
K	kidney function, angiotensin, hypertension, human physiology, isolation
	of angiotension 1959 Mar p 54-58
Kaiser health plan, national health insurance, medical care, medical	comparative psychology, desert adaptation, salt-water balance,
technology, multiphasic screening, H M O, screening out the 'worned well' 1970 Apr p 15-23	thermoregulation, man camel comparison 1959 Dec p 140-151 [1096]
medical care financing, H M O, Medicaid, Medicare, medical	behavioral adaptation, ground squirrels, Mojave desert, animal
technology, national health insurance 1973 Sept p 169–175	behavior, thermoregulation, desert adaptation, desert mammals'
Kaiser Wilhelm Institute, replaced by Max Planck Society	adaptations to heat and aridity 1961 Nov p 107-116
1948 July p 31	kidney machine, dialysis, heart-lung machine, surgery
Kalinga prize, to Julian Huxley 1953 Sept p 74	1954 Aug p 24–27
to Kaempsfert 1954 Aug p 38 to Gamow 1956 Dec p 52	kidney transplant, bone marrow transplantation, immune response,
to Bertrand Russell 1958 Apr p 48	radiotherapy, circumventing immune response 1959 Oct p 57-63 artificial heart, heart transplant, immunosupression, organ transplant,
Arches of Science Award, to Warren Weaver 1965 Nov p 48	mechanical heart implant 1965 Nov p 38–46 [1023]
kallidin, kınıns, peptides, venom, inflammation, bradykının, globulin,	kidney tubule, sodium pump, membrane potential, active transport, cell
local hormones, production and distribution	membrane, biological pumps 1962 Aug p 100–108
1962 Aug p 111–118 [132]	killer bees, bee, reputation inflated 1976 Jan p 63
Kanawha river, fossil river, Teays river 1952 June p 74-80	killer whale, docile in captivity 1966 Nov. p. 72
kangaroos, animal behavior, hopping energetics, mammalian evolution, marsupial 1977 Aug p 78–89 [1366]	kiln, fire-making, human evolution, fire vegetation, cooking, Neolithic
kaolin purification, high-gradient magnetic separation, magnetic	revolution, furnace, heat, introduction to single-topic issue on heat
separation, separation techniques, wastewater punification	l 1954 Sept p 52-57 kilomegacycle waves, ultrasonics, sound waves, acoustic waves at optical
1975 Nov. p. 46-54	Watelength 1063 lune n 60 60
kaonie atoms, atomie nucleus, atomie structure, exotic atoms, muonie	kimberite pipes, diamond, plumes, Earth mantle, volcanic emption
atoms, particle accelerator, pions, quantum mechanics, high-energy physics 1972 Nov. p. 102-110	genesis of kimberlite pines 1978 Apr n 120 122 10211
Karatepe citadel, Hittites, Phoenician script 1972 Nov p 102–110	kimperiites, Earth mantle, meteorite composition, plate tectorics, seismic
Karimojong, animal husbandry, cattle, subsistence herding. Uganda	waves, plumes, Earth dynamics 1975 Mar p 50-63 [915] kinesthetic memory, spatial orientation, visual perception
1969 Feb p 76-89	neuropsychology, perception of the upright
Kents, as medical student 1973 June p 40	1050 Eab = 50 56 (410)
kelp, algue, phytoplankton, food chain, algin, agar 1952 Dec p 15-17	conditioned behavior, learning, behavioral psychology, place-learning
	1963 Oct p 116-122 [479]

1960 Dec p 75

sensory perception, spatial orientation, sensory feedback, plasticity in krypton 86, international time standard sensory-motor systems in man and cats 1965 Nov p 84-94 [494] Kuany ama Ambo, anthropology, social controls, murder, monarchy King's Broad Arrow, white pine, North American forests, Royal Navy, 1950 Oct p 52-55 American Revolution, colonial building 1948 June p 48-53 Kung bushmen, baboons, human evolution social behavior, comparative kinins, peptides, kallidin, venom, inflammation, bradykinin, globulin, psychology, social anthropology, sexual behavior, origin of society local hormones, production and distribution 1960 Sept p 76-87 [602] 1962 Aug p 111-118 [132] kuru, brain disease, scrapie, Chediak-Higashi syndrome, virus disease, kinship, Ashanti, Tallensi, social anthropology, extended family, social animal vectors, multiple sclerosis 1967 Jan p 110-116 structure, social psychology, primitive Tallensian and Ashantian degenerative diseases, immune system, slow virus infection, virus 1959 June p 146-158 disease, scrapie, cancer virus, herpes virus 1974 Feb p 32-40 [1289] Kirlian photography, analyzed 1976 Dec p 53 kwashiorkor, malnutrition, diet, food supply, human nutrition kittens, animal behavior, developmental psychology, homing behavior, 1954 Dec p 46-50 learning, suckling 1972 Dec p 18-25 [552] diet, fasting, human nutrition, metabolism, starvation, marasmus, Klamath weed, weed control, insect herbivores, agricultural technology, physiology of starvation 1971 Oct p 14-21 [1232] leaf-eating beetle, living herbicides 1957 July p 56-67 Klein bottle, topology, inner-tube eversion, Mobius band, trefoil knot, Koenigsberg bridges, four-color-map problem, three-cottages problem 1950 Jan p 18-24 Klein theory, antimatter, Leidenfrost phenomenon, Zeeman effect, highenergy physics, cosmology, high-energy physics and cosmology labor capability, man-day, muscle power, 'scientific management' 1967 Apr p 106-114 [311] 1971 Oct p 96-103 Klinefelter's syndrome, Down's syndrome, chromosomal anomalies. 1955 July p 33-35 labor cost, productivity, mechanization, capital cost trisomy 21, genetic defect, meiosis, mitosis, gene translocation, labor force, productivity, production workers, service workers nondisjunction, afflictions associated with abnormal chromosome 1951 Sept p 36-41 complement 1961 Nov p 66-76 [150] engineering manpower, employment by industry, disciplinary Barr body, sex differences, chromosome, genetic mosaic, cytology, 1951 Sept p 65-65 distribution Turner's syndrome, chromosomal anomalies, sex differences in tissue science manpower, disciplinary distribution, employment by sector 1951 Sept p 71-76 1963 July p 54-62 [161] klystron, microwaves, optical properties, Maxwell's equations, travelingproductivity, capital-output ratio, automatic control, economic and 1952 Sept p 150-160 wave tube, magnetron, waveguides, communication, radar social impact of automatic control 1952 Aug p 43-51 education, US population, age-sex distribution, demographics, gross national product, US census, more from the US census of 1960 microwaves, radar, particle accelerator 1954 Mar p 84-90 1962 Oct p 10-37 microwaves, molecular rotation, spectroscopy, laboratory applications automatic control, economics, technology, input-output analysis, US of microwaves 1957 May p 46-53 impact of technological change, 1947-1958, input-output tables klystron giant, 15mW pulses 1952 Nov p 42 1966 Apr p 25-31 [629] klystron tube, electron accelerator, linear accelerator, Stanford Linear developed countries, sex role, human population women's status Accelerator Center, two-mile Stanford Linear Accelerator 1974 Sept p 136-147 1961 Nov p 49-57 [322] employment levels, manpower policy, US economy, women in labor k.m.e.f.: keratın myosın epidermis flagella 1977 Nov p 43-51 [701] 'k.m.e.f.' group, flagella, contractile proteins, keratin, myosin, epidermis, force, job creation vs job quality 1963 Sept p 82 motility in bacteria 1951 Jan p 20-24 2.7 million in science and technology 1969 Apr p 48 US. a service economy knee joint, surgical prosthesis, human anatomy, surgical replacement of labor-saving devices, robot, assembly computer applications, 1978 Jan p 44-51 [1378] the knee joint manufacturing productivity programmable robot for product 'knock', automobile engines, high compression, combustion chamber 1978 Feb p 62-74 [929] design, high-octane fuel, mechanical vs chemical solutions for assembly laboratory animals, pig comparative physiology, small pig as premature combustion 1950 Feb p 16-19 experimental animal, resemblance to man knot-tying fish, cardiac function, hagfish, comparative psychology, 1966 June p 94-100 [1045] 1966 Feb p 82-90 [1035] cyclosomes, hermaphrodite laboratory services, medical care, community hospital, medical center knots, mathematics, geometry, topology, quinary system, decimal system, general practitioner, medical specialist, Bingham plan, organization tessellation, primitive mathematics 1948 Dec p 44-49 1948 Oct p 7-13 Koenigsberg bridges, topology, inner-tube eversion, Mobius band, Klein of medical technology Labrador, Amerindian, New World archeology, burial mounds bottle, trefoil knot, four-color-map problem, three-cottages problem 1976 Nov p 122-129 1950 Jan p 18-24 1948 Nov p 9 13 Euler, topology, essay by Leonard Euler on the Koenigsberg bridges Labrador deposit, steel production, iron ore fac repressor, phagocytosis gene expression repressor molecules 1953 July p 66-71 operator-repressor system lambda repressor, isolation of two gene mathematics, mnemonics, salesman's route, delight and depth in 1970 June p 36-44 [1171] repressors, how they work 1961 May p 148-158 mathematics lacrimal gland, hypothalamus, tears nerve impulse, reflex, psychogenic algorithms, computer science, undecidable questions, polynomial-time 1964 Oct p 75 4 problems, exponential-time problems, efficiency of algorithms and continuous tears lactic acid formation, ATP, muscle, glycolysis aerobic metabolism 1978 Jan p 96-109 [395] oxygen debt, aerobic metabolism, an ierobic metabolism, energy Korea, Ama, diving diving women, Japan, breathing human physiology, 1972 Mar p 84 91 [1244] 1967 May p 34-43 mechanisms in muscle basal metabolism, adaptation factic acidosis, anxiety neurosis, adrenalin, biochemistry of anxiety kraft process, forest products wood pulp, paper, cellulose, lignin rayon, 1900 1 ch p (9 75 [521] 1974 Apr p 52-62 waste recycling factogenesis, duck-billed platypus isotope tracing milk mimmil Krakatoa, volcanic eruption, plant succession, ecology 1957 Oct p 121 121 1949 Sept p 52-54 synthesis of milk milk, mammary gland casein hormonal action cell secretion 1952 Jan p 40 krebiozen, Dr Ivy unfrocked 19/9 Joh p 28 f. composition and synthesis of coa's milk 1953 Sept p 72 'Red' Grange fires Stoddard lactose tolerance, enzyme deficiency, genetic discree milk sur ir milk 1963 Oct p 54 direction problem 1972 Oct p. 70.7+ f12% Lake Amanilan, Missa cisilizati m underwiter archech s., 200 ft. krill, blue whale sonar, food chun, whaling, natural history of the largest creatine hydrate 1956 Dec p 46 50 1959 Mir p. 104 113 food chun plankton, whale, Antarctic convergence Luphausia anımal Guntemala take-duellers', Paleol it culture securities to metal in Constitute [954 Jan p 84-47[457] Antiretica oceanography marine biology, food chain blue whale dael'ers "lake gas", as fort I she know ecology, Antarctic convergence hiological presuree ("Antarct 19/2 Sept p 15/ 210 Lamarck, I's mic am a gital Frenche to the treate converger-e krypton 85, inclustrial application

orthodoxy, Darwinism, experiments in acquired characteristics 1953 Dec p 92-99	communication, human evolution, speech, origin of speech 1960 Sept p 88-96 [603]
mbda decay, time reversal, symmetry, parity, charge conservation, CPT	computer translation, computer study of structure of language 1962 June p 68-76
conservation, proton spin, experiments in time reversal 1969 Oct p 88-101	brain hemispheres, cerebral dominance, perception, split-brain
imbda hyperon, particle physics, hyperons, hypernuclei	experiments, corpus callosum, intelligence, localization of brain
1962 Jan p 50-56	function 1967 Aug p 24–29 [508]
imbda repressor, phagocytosis, gene expression, repressor molecules,	bilingualism, communication, reading, information processing,
operator-repressor system, lac repressor, isolation of two gene	learning 1968 Mar p 78-86 aphasia, brain damage, Broca's area, speech disorders
repressors, how they work 1970 June p 36-44 [1179]	1972 Apr p 76–83 [1246]
aminar flow, boundary layer, airfoil, turbulence, aerodynamics	visual perception, bilingualism, dyslexia, eye movement, grammatical
heat, propulsion, energy transformation, aerothermodynamics,	relations, reading, perception of words 1972 July p 84-91 [545]
turbulence, high temperatures propulsion 1954 Sept p 120-131	communication technology, cybernetics, information theory, machine
fish, swimming, turbulence, purpoises, how fishes and sea-going	communication, communication, introduction to single-topic issue on communication 1972 Sept p 30-41 [677]
mammals swim 1957 Aug p 48-54 [1113] ammergeier, alpine environment, cushion plant, pinks, Himalayan	information theory, painting, sculpture, architecture, visual
mountain ecology 1961 Oct p 68–78	communication, communication, trademarks, visual stimulus, visual
lampbrush' chromosome, cell differentiation, tissue specialization,	signals 1972 Sept p 82-96 [548]
embryonic development, zygote, fertilization, ovum, clone, cytology,	child development, communication, social speech
how cells specialize 1961 Sept p 124-140 lamprey, jawless fish, pest control, Great Lakes, trout, whitefish	1977 Feb p 100–105 [576] language diffusion, Africa, Bantu language, Early Iron Age culture,
1955 Apr p 36-41	linguistics 1977 Apr p 106–114
land animals, fossil fish, coelocanth, evolution 1955 Dec p 34-39 [831]	language of science, English or German 1956 Apr p 71
land management, land use, grazing, forestry, rangeland, agricultural	language organization, grammar, linguistics, speech errors, spoonerisms,
resources, U.S. Western states 1970 Feb p 88–96 [1169]	syntactic rules 1973 Dec p 110-117 [556] Laplace, politics, cosmology, physics, life and work of Pierre Simon de
land ownership, land use, urban planning, Stockholm, cities, urban renewal, Stockholm as a planned city 1965 Sept p 106-115	Laplace 1954 June p 76–81
urban planning, Ciudad Guyana, cities, economic geography, highway	large-scale integrated circuits, computer memory, integrated circuits,
engineering, a model city in Venezuela 1965 Sept p 122-132	metal oxide semiconductors, microelectronics, logic circuits,
land reclamation, trace elements, cobalt, desert ecology, vitamin B12	transistor 1970 Feb p 22-31 integrated circuits, photolithographic techniques, manufacture of
synthesis, agricultural technology, reclamation of infertile Austrialian land 1959 Jan p 97-106	integrated circuits 1977 Sept p 110–128 [377]
Negev desert, irrigation, desert ecology, agricultural technology, Israel,	binary arithmetic, Boolean logic, integrated circuits, logic elements,
desert reclamation 1960 Mar p 54-63	microelectronics 1977 Sept p 82–106 [376]
irrigation, ground water, artesian well, agricultural technology, Sahara desert, water resource management, intercalary water, 'fossil' water,	larvae, insect metamorphosis, juvenile hormone, pupa, demonstration of hormonal control in silkworm moth 1950 Apr p 24-28
making desert fertile 1966 May p 21–29	alkaloids, butterfly, symbiosis, insect repellants, behavioral adaptation,
coal mining, strip-mining 1975 Dec p 23–29	plant evolution, mimicry, butterfly-plant association
strip-mining 1974 Aug p 48	1967 June p 104–113 [1076]
land reform, agricultural technology, food supply, population growth, FAO, human nutrition, FAO Indicative World Plan	mosquitoes, yellow fever, sexual behavior, reproduction, eggs, Aedes Aegypti 1968 Apr p 108-116
1970 Aug p 54-69 [1186]	cell culture, cell differentiation, fruit fly, transdetermination
land subsidence, petroleum extraction, water injection	1968 Nov p 110–120 [1127]
California oilfield 1950 Jan p 30	larynx, music, voice, singing voice, pharynx, acoustics of singing voice
land use, urban planning, Stockholm, cities, land ownership, urban	1977 Mar p 82-91 Lascaux, cave art, cave paintings, Paleolithic archeology, sculpture.
renewal, Stockholm as a planned city 1965 Sept p 106-115	Altamira 1968 Feb p 58-72
housing, population density, shantytowns, taxation, government	laser: light amplification by stimulated emission of radiation
regulation, urban planning, cities, control of land use 1965 Sept p 150-160	laser, maser, coherent radiation, stimulated emission, first lasers as 'optical masers' 1961 June p 52-61 [274]
shantytowns, squatters, urban sociology, housing, 'barriadas' of Lima,	crystallography, light refraction, nonlinear optics, light interactions,
Peru 1967 Oct p 21–29	ultraviolet radiation, photon 1964 Apr p. 38-49
grazing, forestry, rangeland, agricultural resources, land management, US Western states 1970 Feb p 88-96 [1169]	holography, wave-front reconstruction, interferometry, lensless laser photography 1965 June p 24-35 [300]
landslide, clay, quick clay, formation and properties of quick clay	communication technology, signal transmission, multiplexing signal
1963 Nov p 132–142	transmission by laser 1966 Jan p. 19–27 (302)
Langmuir trough, muscle contraction, artificial muscle, ATP, actinomyosin, muscle relaxation 1952 Dec p 18-21	chemical laser, infrared radiation, chemical pumping
actinomyosin, muscle relaxation 1952 Dec p 18-21 language, infant speech, learning, communication, meaningful	1966 Apr p 32-39 [303] light-emitting diode, semiconductor, electron beam, junction diode,
consistencies in infant babble 1949 Sept p 22–24 [417]	solid-state lasers 1967 May p. 108-122
speech, dialects, American languages, linguistics, changes in U S speech 1950 Jan p. 48-51	iiquid lasers rare earth ions, solvation shell, chelate cage, comparison
speech 1950 Jan p 48-51 humor, physics, jocular physics, broken English, tribute to Niels Bohr	of liquid, gas and solid-state lasers 1967 June p 80-90 spectroscopy, materials technology, color, photoelectric effect,
1956 Mar n 93–102	transparency, optical properties of materials 1967 Sept. p. 238-248
Polynesian culture, cultural evolution, tools, settlement of South Sea	holography, microscopy, white-light reconstruction, color holography
Islands, origin of Polynesians 1956 Aug p 58-72 agricultural production, poverty, education, economic development,	1968 Feb n 40 40
Peru, literacy, Cornell-Peru experiment in economic development	crystal structure, phase memory, photon echoes nuclear-spin echo
1957 Jan n 37-45	communication technology, pulse-code modulation, electron optics,
Canary Islands, nonverbal communication, whistling, phonology, the whistled language of La Gomera 1957 Apr p 111-118	Refrese Pocker's effect, polarization modulators, modulation of
evolution, intelligence, learning, memory, imagery, experimental	laser light 1968 June p 17–23 carbon dioxide, infrared radiation, nitrogen, gas laser, physics of
psychology, learning in man and animals 1957 June p. 140–150	1000 A
artificial intelligence, Loglan, linguistics, 'language of logic'	option communication, nolography, surveying welding light losses
1960 June p 53-63	technology 1968 Sept p 140–156

earthquake prediction, strain gauge, interferomet	ry. Earth crust	Internals soil structure characters and the
microsurgery, cell, physiology, laser lesions, cell o	1060 Dag = 00 g	the soils of the world and
1970	Feb n 08, 110 11170	
computer graphics, integrated circuits, computer	technology, computer	metal whisters
modering, programs, logic of displays	1970 June a 86 0	1960 July p 64-72 crystal structure, lattice dislocations observed 1961 Oct. p 107-116
coated optics, optical interference coatings, light i	reflection, light	alloys, materials technology, metals, crystal structure, grain boundanes.
transmission, dielectric mirrors, interferometry carrier-wave generator, communication technolog	1970 Dec p 58-75	dislocations, electron 'gas', nature of metals 1967 Sept p 90-100
diode laser, heterostructure lasers, light-emittin	r, crystai structure,	laughter, psychoanalysis, humor, psychiatry, psychosis Freudian
solia-state electronics	1971 July n 32,40	interpretation of humor 1956 Feb p 31-35 [45]
gas separation, laser-light pressure, radiation press	sure isotone	
separation, 'optical bottle', atomic and moleculi	ar beams	Laurasia, continental drift, glaciation, Gondwanaland paleomagnetism, Glossopteris, sea-floor spreading, supercontinents, plate tectorics
	1972 Feb n 62-71	mantenantal duck Fr 1 2010 4 19 (1)(018)
communication technology, fiber optics, light pipe	, light-emitting diode	Confinental drift speciation repute evolution radiation genetic
application to taleno management	1973 Nov p 28-35	convergence, Gondwanaland, mammalian evolution supercontinent
application to telecommunication state of the art	1960 Dec p 80	breakup and animal diversification 1969 Mar p 54-64 [877]
in infrared	1962 Mar. p 70	
acoustic waves generated	1962 Dec p 72 1964 Aug p 40	
liquid, high energy	1966 Oct n 48	Lavoisier, chemistry, phlogiston theory, science history, biography of Antoine Lavoisier 1956 May p 84-94
acoustic holography, sound waves, interference, ho	lography, acoustic	law code, Sumer, Lipit Ishtar, Hammurabi, cuneiform script, earliest lan
imaging, nondestructive testing, medical diagnos	\$15	code 1865 B C 1948 June p 44-47
	1969 Oct p 36	Sumer, hieroglyphs, Ur-Nammu 1953 Jan p 26-28
exothermic carbon dioxide	1970 Feb p 44	archeology, Sumer, cuneiform script, 3000 B C. to 1500 B C Ut,
gas-dynamic laser semiconductor minilaser	1970 July p 52	Nippur 1957 Oct p 70-83
transmission by optical fiber	1970 Oct p 54	law of large numbers, probability, gambler's fallacy, random walk mathematical proof, philosophy of science 1950 Oct p 44-47
energy levels, helium-cadmium laser, helium-seleni	1972 Feb p 42	"Law of the Heart', Starling, cardiology, biography of Ernest Starling
muxtures, metal-vapor lasers	1973 Feb p 88	1951 Oct p 56-61
isotope separation by laser	1974 Oct p 57	law of the sea. U.N. Conference 1978 Apr. p. 78
see also organic lasers, solid-state lasers, gas laser a	ind the like	lawn mower, random pattern most efficient 1969 Apr p 52
laser amplification, surface laser	1971 Nov p 49	lawrencium, 'synthetic' elements element 103 transuranium elements.
laser-excitation technique, isotope separation, light ab		high-flux isotope reactor, heavy-ion linear accelerator, penodic table
	Feb p 86-98 [354]	at 103 1963 Apr p 68-78
laser implosion, fusion reactor, nuclear power, nuclear thermonuclear reaction, plasma confinement	1974 June p 24–37	layered superconductors, BCS theory, crystal structure, electrical properties of metals, intermetallic compounds, intercalated crystal
laser lesions, microsurgery, laser, cell, physiology, cell		superconductors 1971 No. p 22
	eb p 98-110 [1170]	lead isotopes, isotope dating, radioisotope dating, strontium-rubidium
laser light, coherent radiation, interference, Brillouin s	scattering, energy	ratios peological and paleontological time dated by radioactive
	68 Sept p 120-136	decay 1949 Aug p 48
self-induced transparency	1967 June p 57	lead poisoning, chelation, hemochromatosis, pharmacology, drug action Wilson's disease metal poisoning heavy metal poisoning bone
laser light manipulation, rategrated circuits, light properties, i.e., file and a devices, optical circuits, pl	nganon in uusi notone inetead of	concer soliculates assum cancer therapt, chemotherapt, medical
	1974 Apr p 28-35	exploitation of chelates 1900 Ma) P 70
laser-light pressure, gas separation, laser, radiation pre	ssure, isotope	anemia hrain damage environmental toxins, blood disorders kidney
separation, 'optical bottle', atomic and molecular	beams	disorder, nerve disorders 1971 Feb p 13-23 (12)
	1972 Feb p 62–71	of waterfowl by spent birdshot pellets 1972 Sept P
laser mode-locking, Kerr gate, molecular motion, quan Raman clock, ultrafast phenomena, picosecond m	ium mechanics	leadership communication social neighbory suork patterns profiles.
Raman clock, unraiast phenomena, pedaccona m	1973 June p 42-60	neonle in groups 1931 Feb p 200
laser-pulse fusion, fusion reactor, plasma physics, nucle		leaf color, anthocyanins, chlorophyll, carotene, primary synthesis of
	971 June p 21–33	aromatic compounds 1950 Oct p 40
laser-pumped oscillator, optical parametric oscillator	1967 May p 56	leaf distribution, ecology, forest succession, trees 1975 May p 90-98 (132)
laser reflection, Apollo project, moon, orbital motion, lexperiment, corner reflector, Earth-Moon distance	measurement	leaf-eating heatle, used control insert bethingtes, agricultufal
	9/0 Mar p 38-49	technology Klamath weed Iwang herbicides 1957 July P 30-0
laser spectroscopy, Doppler effect, energy levels gas las	er, spectroscopy	leaf scission, auxins apical bud 1955 Nov p 82-89 [11]
, ·	973 Dec p 69-85	leaf shape, aging duckweed systematic study of familiar amateur observation 1949 Oct p 22-2
laseriess holograms, holography, white-light holograms	976 Oct p 80-95	leaftenmer acter vellow varies unless the plant and insect
latent heat, capillary action, heat pipes, vaporization, he		1953 June p 10-01
and interest	Jug May p Jumb	learning, thinking comparative psychology, rhesus monkeys 'learning to
latent viruses, slow virus infection, multiple sclerosis, my	elin sheath,	think' 1949 Aug p 30-39 (715)
- at amuslitic demuelinating latioi	310 3013 b -10 -10	infant speech language communication meaningful consistencies in infant babble 1949 Sept p 22-24 [417]
based on bone structure gene expression, provirus vii	us action	racion infant exectand coordination human exe
coexisting viruses, viral genes in host chromosome	p 102-113 [1347]	1950 Feb p 20–22 [401]
laterization, agricultural production equatorial rain fore	sts tropical	neurosis stress psychotherapy, experimental neuroses in cats 1950 Mar p 38-43 [443]
climate, developing countries, lateritic soil	- 06 107 (970)	vision experience sensory deprivation, 'arrested vision' role of
	p 96–102 [870]	environment experience in normal development
bomb craters, cratering, ecological warfare, defoliation	y p 20-29 [1248]	ובטאן פו-10 ס נוער טכפו
to the same sale anization	n. elastomers.	automata theory feedback conditioned reflex 1951 Aug p 60-63 operant conditioning, pets babies how to teach animals 1951 Date 20 20 11221
synthetic rubber, molecular structure 19:	56 Nov p 74-88	operant conditioning, personal new to teach animals
lathes, Industrial Revolution industrial technology, 1062	Apr p 132-142	
from Middle Ages		

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memory, brain, cerebral cortex, fundamental research, What is	aplysia, neurones, behavior, memory, synapse, heterosynaptic
memory? 1953 Sept p 118–126 [11]	facilitation, memory and learning at nerve-cell level 1970 July p 57-70 [1182]
fear, emotional development, comparative psychology, influence of	information retrieval, long-term memory, memory, short-term memory
early environment, experiments with dogs 1956 Jan p 38-42 [469]	1971 Aug p 82–90 [538] brain development, environmental stimuli, memory, rats, sensory
nerve regeneration, vision, visual perception, embryonic development, inborn 'hard wiring' of nerve circuitry 1956 May p 48-52 [1090]	deprivation 1972 Feb p 22–29 [541]
psychology, spatial perception, innate behavior, perceptual learning,	animal behavior, developmental psychology, homing behavior, lattens,
innate vs acquired space perception 1956 July p /1-80	suckling 1972 Dec p 18–25 [552] behavioral regression, child development, cognitive development,
brain, neurophysiology, neuropsychology, pleasure centers, hypothalamus, electrode stimulation of pleasure centers in rat brain	human behavior, infant perceptions 1976 Nov p 38–47 [572]
1956 Oct p 105–116 [30]	gobies learn and remember 1951 Apr p 38
bird song, animal communication, innate behavior, animal behavior	psychology, effect of delayed video feedback on maze solving 1961 Jan p 86
elephant, intelligence, vision, research in elephant learning	electrical activity in cerebral cortex 1967 July p 42
1957 Feb p 44-49	autonomic nervous system 1969 Apr p 49
evolution, intelligence, memory, language, imagery, experimental	brain-tissue implant in Tilapia 1969 May p 54
psychology, learning in man and animals 1957 June p 140–150 color vision, conditioned behavior, behavioral psychology, Skinner	learning behavior, comparative psychology, animal behavior, prairie dogs, social behavior, territorial behavior, innate behavior, field
box, visual discrimination, pigeons conditioned to respond to	observation of prairie dog communities 1959 Oct p 128–140
discrete wavelengths of light 1958 Jan p 77–82 [403]	learning speed, number of brain cells 1955 June p 56
imprinting, developmental psychology, animal behavior, effect of early life on later learning 1958 Mar p 81–90 [416]	learning theory, information processing, memory, reason, rational association as aid to memory 1956 Aug p 42-46 [419]
hife on later learning 1958 Mar p 81-90 [410] education, memory, experimental psychology, 'drill' in learning	glial cells, memory, neurones, RNA, brain, molecular theory of
1958 Aug p 68–72 [422]	memory 1961 Dec p 62–70 [134]
electroencephalography, brain waves, sleep, conditioned behavior, correlation of brain waves to behavior 1959 Aug p 89–96	least-action principle, Maupertuis, natural history, geoid, life and work of Pierre-Louis Moreau de Maupertuis 1955 Oct p 100-110
stress, behavior disorders, animal behavior, stimulation in infancy	least-squares method, physical constants, measurement, velocity of light,
1960 May p 80–86 [436]	electron mass, particle charge, standards of measurement, Planck's
depth perception, vision, visual perception, innate and learned response to visual cues 1961 Mar p 138-148	constant, Rydberg constant 1970 Oct p 62-78 [337] lecithin, fatty acid synthesis, microsome, acetic acid, coenzyme A, lipids,
visual perception, form perception, perception, innate or learned form	synthesis not breakdown in reverse 1960 Feb p 46-51
perception 1961 May p 66–72 [459]	alveoli, lung collapse, premature infants, breathing, surface tension, surfactant, hyaline membrane disease, soaplike agents regulate
retina, vision, visual perception, Gestalt psychology, stabilized retinal images, evidence for perceptual theories 1961 June p 72-78 [466]	surface tension in lungs 1962 Dec p 120–130
visual perception, Fechner's law, psychophysics, Skinner box,	lectins, agglutination response, cancer, cell membrane, immunology,
behavioral psychology, conditioned behavior, pigeon perception 1961 July p 113–122 [458]	proteins 1977 June p 108–119 [1360] lee waves, meteorology, wind, cloud, soaring, glider, esthetic exploitation
planarian, conditioned behavior, maze running, 'protopsychology',	of lee waves 1961 Mar p 124–134
evidence of learning in a primitive nervous system	leeches, spiders, spermatozoon transfer, sponges, sexual reproduction,
1963 Feb p 54-62 conditioned behavior, kinesthetic memory, behavioral psychology,	bedbugs, unorthodox methods of sperm transfer 1956 Nov p 121-132
place-learning 1963 Oct p 116-122 [479]	neural organization, nerve cells, nerve physiology, nerve signals,
memory, forgetting, proactive and retroactive interference 1964 Mar p 91-99 [482]	nervous system, reflex arc, neuro motor synapse 1974 Jan p 38-48 [1287]
chimpanzee, symbolic language, operant conditioning, binary numbers,	left-hemisphere functions, brain hemispheres, cerebral dominance, music
animal behavior, chimpanzee learning arithmatic	perception, right-hemisphere functions, auditory perception visual
1964 May p 98-106 [484] animal behavior, habitat selection, ecological adaptation, heredity, field	perception 1973 Mar p 70-78 [554] left-right asymmetry, bilateral symmetry, mirror images, central nervous
experiments with mice 1964 Oct p 109–116 [195]	system 1971 Mar p 96~104 [535]
conditioned behavior, long-term memory, short-term memory, lobotomy, octopus, touch, sensory perception, correlation of brain	Legionnaires' disease, traced to airborne bacterium 1978 Feb p 80 legumes, nitrogen, biological nitrogen fixation, ammonia, nitrifiers,
structure and function in octopus 1965 Mar p 42–50 [1006]	denitrifiers, nitrogen cycle 1953 Mar p 38-42
attention, physiological psychology, novelty, conflict, monotony,	bacteria, nitrogen cycle, nitrogen fixation, blue-green algae. Haber
conflict and arousal, aid to learning 1966 Aug p 82–87 [500] sensory perception, vision, touch, visual perception dominates touch	process, biosphere nitrate, eutrophication 1970 Sept p 136-146 [1194]
1967 May p 96–104 [507]	nitrogen fixation, agronomy, soybean products, plant protein
brain metabolism, memory, protein synthesis, goldfish, conditioned behavior 1967 June p 115-122 [1077]	1974 Feb p 14-21 agricultural economics, forage crops, grasses, agronomy, hay, livestock
forgetting, retroactive inhibition, proactive inhibition, recall,	feed, ruminants, silage, Rhizobium bacteria 1976 Feb n 60-75
interference theory 1967 Oct p 117–124 [509] bilingualism, language, communication, reading, information	algae, bacteria legumes, nitrogen fixation, nitrogenase genetic
processing 1968 Mar p 78–86	engineering, Haber process, rhizobium, symbiosis, nitrogenase, biological nitrogen fixation 1977 Mar p 68–81
animal behavior, cerebral cortex, striatum, bird nervous system, crows, pigeons, cananes, chickens 1968 June p 64-76 [515]	algae, bacteria, nitrogen fixation, nitrogenase, genetic engineering
holography, memory, brain function, interference patterns, monkey	Haber process, rhizobium, legumes, symbiosis, nitrogenase, biological nitrogen fixation 1977 Mar. p. 68–81
brain, holographic model, neurophysiology of remembering	Leibnitz, mathematics, philosophy, calculus, symbolic logic, calculating
thesus monkeys, social behavior, urban monkeys, urban and forest	machine, Leibnitz, biography 1968 May = 04 100
monkeys in india 1060 tule m inglist (522)	Leidenfrost phenomenon, antimatter, Zeeman effect, Klein theory, high- energy physics, cosmology, high-energy physics and cosmology
animal behavior, innate behavior, parental care, feeding behavior, sea gull chicks 1969 Dec p 98-106 [1165]	1967 Apr p 106 114 (211)
autonomic nervous system heart rate blood pressure gurare	leishmaniasis, Chaga's disease, public health, 'zoonoses', parasitism trypanosomiasis, malana, filanasis plague, yellow fever, typhus,
electrocardiography, learning voluntary control of autonomic	epidemiology, animal infection and human disease
1970 Jan p 30–39 [525]	1000 14
	lek behavior, animal behavior, courtship display, turkeys, pecking order, sexual behavior, Welder Wildlife Refuge 1971 June p 112–118
in the three	1971 June p 112–118

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sage grouse, sexual behavior, natural selection, lek mating behavior in	along from the state of the
50gc grouse 1078 May n 114 125 1120	of the state of th
see also, alena denaylor	
lemmings, animal behavior, population cycles, population control	forest communities, ecology, algae, food chain, nitrogen cycle, treetop ecosystems
1974 tune n. 29 46 (120)	275 June p. 17-00 [1214]
rengin standard, cestum clock, mass standard, time standard, temperature	c life evele, virus reproduction bectarionhage acquires
standard, interferometry, measurement 1968 June p. 50-6	2 1064 14 24 27
ieus averrations, glass, optics, photographic lenses 1076 Apr. n. 72 o	1994 Mai, p. 54-37
tens design, camera, telescope, interferometry, computer graphics, image	predation 1054 tune n 77 43
formation, light 1968 Sent in 96, 10	8 chimney swift, natural history 1954 July p. 60-64
Leonardo, friction, Coulomb, technology history, sliding surfaces,	life expectancy, aging death biology of consecond 1949 time n 40 43
molecular cohesion, 'coppering' 1951 Feb. p. 54-5	probability of death, historic changes in average length of human life
projective geometry, Renaissance paintings, Durer, Desargue's	1950 Apr. p. 58-60
theorem, Pascal's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan. p. 80-86	aging, rotifer, experiments in aging, age of mother 1953 Apr. p. 38-42
systematized by Poncelet and Klein 1955 Jan. p. 80-80	aging, death rate, disease etiology, male:female life expectancy
creativity, scientific revolution, Renaissance, philosophy of science, introduction to single-topic issue on innovation in science	1958 Feb. p. 22-27
	aging, death rate, comparative life spans in man and other animals
1958 Sept. p. 58-65 bearing, friction, gears, technology history, Codex Madrid I	
searing, metion, gears, recimiology history, Codex Madrid 1	aging, cell physiology, gerontology, manifestations of aging
1971 Feb. p. 100-110 Lepidoptera, entomology, photoperiodicity, insect diapause, hibernation	
governed by photoperiodicity 1960 Feb. p. 108-118	chronic illness, morbidity, mortality rates, medical care, vital statistics,
governed by photoperiodicity 1960 Feb. p. 108-118 leptons, charmonium, charmed quarks, high-energy physics, gauge	
theory, hadrons, quark hypothesis, 'color' and 'flavor' in quarks	1973 Sept. p. 76-84
1975 Oct. p. 38–50	life processes, living tissue, limits of dimension and mass, Jonathan Swift was no biologist 1948 Nov. p. 52-55
baryons, high-energy physics, hadrons, mesons, quantum numbers,	was no biologist 1948 Nov. p. 52-55 lift barrier, heat barrier, supersonic flight, aviation 1953 Dec. p. 80-84
quark confinement, bag model, infrared-slavery model, string model	in parties, near parties, supersome right, aviation 1950 Exc. p. 50 1950 in the flight, insect flight.
1976 Nov. p. 48-60	mechanism, hovering flight
heavy leptons, tau particle, elementary particles, small light-particle	1975 Nov. p. 80-87 [1331]
family gains new member 1978 Mar. p. 50-57 [398]	light, ultraviolet radiation, photoreactivation, visible light reactivates
letters, reading, words, pattern recognition, visual cues in recognition of	organisms killed by ultraviolet 1951 May p. 22-25
letters and words 1978 Jan. p. 122-130 [122]	Haukshee, electric power, science history, life and work of Francis
leukemia, atomic bomb test, radiation damage, ionizing radiation,	Hauksbee 1953 Aug. p. 64-69
immune response, fallout, nuclear medicine, radiation damage,	radiation pressure, sound-wave pressure, photophoresis, analogy and
whole-body irradiation 1959 Sept. p. 117-137	distinction, light- and sound-wave pressure 1957 June p. 99-105
cancer, enzyme blood levels, myocardial infarction, hepatitis, cancer	diffraction, wave-particle duality, optics, interference, electromagnetic
diagnosis, medical diagnosis, diagnosis by presence of abnormal	waves, photon emission, introduction to single-topic issue on light 1968 Sept. p. 50-59
enzymes 1961 Aug. p. 99–107	1900 Sept. p. 50 v.
leukocyte, cancer, chemotherapy, virus, ionizing radiation, Down's	photoelectric effect, color, reflection, refraction, resonance absorption,
syndrome, origin and treatment of lymphocytic and granulocytic leukemia 1964 May p. 88-96	photon, electron, interaction of light with matter 1968 Sept. p. 60-71
cancer virus, Rous sarcoma virus, cancer virus, RNA virus, 'Rous-	spectroscopy Fraunhofer lines prism Fourier analysis, diffraction
associated virus' capacitates 'defective' Rous sarcoma virus	grating, Girard grid, interferometry 1968 Sept. p. 72-82
1964 June p. 46–52 [185]	comers land decion telescone interferometry computer graphics,
asparaginase, cancer therapy 1968 Aug. p. 34-40	image formation [968 Sept. p. 50-100
leukocyte, infection, phagocytosis, antibodies, 'the first line of defense'	vision, retina, photographic emulsion, vidicon, television camera,
1951 Feb. p. 48-52 [51]	-bree-breiter immor desection plantropic camera
blood plasma, blood fractionation, erythrocyte, platelets, centrifuge,	photoenemistry, image detection, electronic earners 1968 Sept. p. 110-117
blood transfusion, blood banks 1954 Feb. p. 54-62	laser, optical communication, holography, surveying, welding, laser technology 1968 Sept. p. 140-156
fever, thermoregulation, homeostasis, hypothalamus, etiology of fever	vision, image processing, visual perception, imagery, eye and brain in
1957 June p. 62–68	viewal necession 1968 Sent D. 204~414 [277]
antigens, immune response, antibodies, hypersensitivity, phagocytosis, inflammatory response, allergy, thymus gland, lymphatic system,	measuring speed of light 1957 Feb. p. 62
cellular immunity 1964 Feb. p. 58–64	light absorption, solar energy nigments, energy conversion, solar
leukemia, cancer, chemotherapy, virus, ionizing radiation, Down's	collectors 1956 June p. 97-100
syndrome, origin and treatment of lymphocytic and granulocytic	chlorophyll, chloroplast, electron transfer, photosynthesis
leukemia 1964 May p. 88–96	1974 Dec. p. 68–82 [1310]
nucleus, DNA, Miescher, spermatozoon nucleus, chromatin, hereditary	isotope separation, laser-excitation technique, quantum mechanics, uranium enrichment 1977 Feb. p. 86-98 [354]
meterial discovery of DNA 1968 June p. 78-88 [1109]	light amplification, photocell, photomultiplier, variable stars, stellar
wound healing, regeneration, fibroblasts, collagen, epidermal cells	temperature, interstellar matter 1952 Mar. p. 56-59
1969 June p. 40–50 [1144]	the second secon
liberal arts colleges, scientists, science education, origins of U.S. scientists 1951 July p. 15-17	1974 July p. 60-75
Passage Libraries Group 1974 June p. 50	light-emitting diode, semiconductor, taser, electron beam, junction diode,
library cooperation, Research Libraries Group 1974 June p. 50 library science, computer technology, information storage, information	solid-state lasers 1967 May p. 106-122
	integrated circuits, liquid crystals, Nixie tubes, numeric displays 1973 June p. 64-73
1900 Sept. p. 227-272	communication technology, laser, liber optics, light pipe
printed-matter explosion quantified 1963 Nov. p. 72	1973 Nov. p. 28–35
printed-matter explosion quantities lice, bacteria, ectoparasites, skin, fungi, hair, human skin ecosystem 1969 Jan. p. 108–115 [1132]	digital transmission, diode laser, fiber optics, glass fiber cables, light-
	wave communication, pulse-code modulation, lightwave telephone
licensing, Atomic Energy Act, patent law, power, international	1977 Aug. p. 40–48 [573]
cooperation, military secrecy, mentational 1954 Nov. p. 31–35	light-emitting semiconductor, carrier-wave generator, communication
provisions of Atomic Emergy vet ecology, polar ecology, symbiotic	technology, crystal structure, diode laser, laser, heterostructure lasers, solid-state electronics 1971 July p. 32-40
	light interactions, crystallography, laser, light refraction, nonlinear optics,
	ultraviolet radiation, photon 1964 Apr. p. 38-49
Antarctica, fauna, flora, blue-green argue, cology, p. 212–230 [865] terrestrial life	The state of the s

light-matter interaction, photochemistry, flash photolysis, ultraviolet	limited nuclear warfare, civil defense, arms race, fallout technology
light, photolysis, triplet state, photoreduction, photooxidation, dye	assessment, flexible-response strategy, limited nuclear war
1968 Sept p 158–170	1976 Nov p 27–37
light microscope, microscopy, scanning electron microscope, transmission	limits of dimension and mass, life processes, living tissue. Jonathan Swift
electron microscope, three demensional pictures by scanning	was no biologist 1948 Nov p 52-55
	limnology, pond life, dissolved oxygen, plankton, thermocline,
	hypolimnion, oxidation-reduction balance in depths of a pond
light pen, cathode ray tube, computer technology, computer displays,	1951 Oct p 68–72
information theory, computer graphics, rand tablet, computer	limpets, escape response, marine invertebrates, starfish, scallop, prey-
graphics and man-machine interface 1966 Sept p 86-96	
light pipe, communication technology, laser, fiber optics, light-emitting	predator relationship, snail, chemical signals
diode 1973 Nov p 28–35	1972 July p 92–100 [1254]
light polarization, interstellar dust, interstellar gas, protostars	Limulus, horseshoe crab, vision, ommatidia, visual perception optic
1967 Oct p 106–114	nerve, horseshoe crab as laboratory animal 1956 Dec p 113-122
light pressure, solar system, Sun, cosmology, dust cloud hypothesis,	visual perception, ultraviolet receptor 1964 Apr p 62
gravity, gravitational collapse, thermonuclear reaction, genesis of	line structure, color television picture elements, field-scanning rate,
solar system 1948 May p 35–45	technology assessment, competing color television systems weighed
light propagation in thin films, integrated circuits, laser light	1950 Dec p 13–17
manipulation, thin-film optical devices, optical circuits, photons	Linear A script, Mycenaean civilization, Hebrew civilization, Linear B
instead of electrons in circuits 1974 Apr p 28–35	script, Minoan civilization, Crete, Semites, common origin of Greek
light reflection, fiber optics, wave guide, image transmission, physics of	and Hebrew civilizations 1965 Feb p 102-111
light conduction 1960 Nov p 72–81	linear accelerator, electron accelerator, traveling-wave accelerator.
coated optics, optical interference coatings, light transmission,	internal drift-tube accelerator 1954 Oct p 40-44 [234]
	electron accelerator, Stanford Linear Accelerator Center, klystron tube,
dielectric mirrors, laser, interferometry 1970 Dec p 58-73 light refraction, crystallography, laser, nonlinear optics, light interactions,	two-mile Stanford Linear Accelerator 1961 Nov p 49–57 [322]
	streamer chamber, track detectors, pulse generator, new particle
	detector 1967 Oct p 38–46
light scattering, photometry, molecular size, aerosol, hydrosol, Tyndall spectra, measurement 1953 Feb p 69–76	U S Federal funding 1961 Aug p 60
	Linear B script, Homer, Minoan language, Greek civilization cryptology,
molecular weight determination, polymers, viscometer, photometer,	an account of the decipherment 1954 May p 70–75
how grant molecules are measured 1957 Sept p 90-97	Greek civilization, Mycenaean civilization, Classical archeology, Pylos,
molecular weight determination, polymers, viscometer, photometer,	
how giant molecules are measured 1957 Nov p 90-97	King Nestor's palace, 1200 B C 1958 May p 110–121 Mycenaean civilization, Hebrew civilization, Linear A script, Minoan
sunset, sunrise, green flash, green flash explained	
1960 Jan p 112-122	civilization, Crete, Semites, common origin of Greek and Hebrew
astrophysics, zodiacal light, zodiacal light and interplanetary dust	civilizations 1965 Feb p 102–111
1960 July p 54–63	Greek prehistory, Mycenaean civilization, origins of writing
light-string theory, dual-resonance model, high-energy physics, hadrons,	1972 Oct p 36–44 [681]
quark, strong interactions 1975 Feb p 61-67	code cracked 1954 Jan p 44
light-to-heat conversion, solar energy, photovoltaic conversion,	linear induction motor, electromagnetic flight, transportation, linear
photosynthesis, limitations and prospects of solar power	synchronous motor, 'magneplane' vehicle, magnetic levitation,
1950 Aug p 16–21	superconductors 1973 Oct p 17–25
light transmission, coated optics, optical interference coatings, light	linear programming, decision theory, mathematical model
reflection, dielectric mirrors, laser, interferometry	1954 Aug p 21–23
1970 Dec p 58–75	linear synchronous motor, electromagnetic flight, transportation, linear induction motor, 'magneplane' vehicle, magnetic levitation
light velocity, radiowave, phase velocity, plasma, free-electron density, 'things that go faster than light' 1960 July p 142–152	
light-wave communication, digital transmission, diode laser, fiber optics,	linguistic material, image processing, memory, perception, visual memory,
glass fiber cables, light-emitting diode, pulse-code modulation	remembering what is seen 1970 May p 104-112 [528]
lightwave telephone 1977 Aug p 40–48 [373]	linguistics, speech, language, dialects American languages, changes in
light waves, thin-film optical devices, interferometry, fluorescence, wave	US speech 1950 Jan p 48-51
motion, monomolecular films, fatty acids 1970 Mar p 108–119	evolution of language information theory, a theory of natural selection
lighting, electric light, zinc sulfide, alternating current, technology of	in language 1952 Apr p 82–87
indoor lighting 1957 Aug p 40-47 [221]	computer translation, information theory 1956 Jan p 29-33
architecture, sunlight, solar radiation, building construction, glass	Indo-European language, comparative grammar, root words,
1968 Sept p 190–202	reconstructing genealogy of Indo-European languages
lightning, thundercloud, ionization physics of the lightning bolt	1958 Oct p 63–74
1949 Feb p 22–27	pidgin, Creole, gullah, colonialism, grammar, evolution and
Earth magnetic field, radio, ionosphere, 'whistlers', radio echoes of lightning 1956 Jan p 34-37	elaboration of colonial languages 1959 Feb p 124–134
	artificial intelligence, language, Loglan, 'language of logic'
acoustic pulses, air pressure, thunder 1975 July p 80-90 Earth ionosphere resonator 1961 Feb p 70	1960 June p 53–63
	grammar, language organization, speech errors spoonerisms, syntactic rules
temperature 1961 Oct p 86 triggered with rockets 1967 Dec p 58	
thunder, classifying bolts by sound 1975 Jan p 49	Africa, Bantu language, Early Iron Age culture, language diffusion
superbolts 1977 Sept p 105	1977 Apr p 106–114
lignin, wood cellulose, cell structure, grain structure 1953 Jan p 64-67	lions, animal behavior symbiosis predator-prev relationship
cellulose, rayon forest products, crystal structure, polymers, paper,	identification by which are assert to the 1975 May p 54-65
polysacchandes, overview of natural polymer 1957 Sept p 156-168	identification by whisker-growth patterns 1970 Sept p 94
wood, paper aromatic compounds chemical identity of clusive lignin	lipid molecules, cell membrane, membrane proteins, membrane structure, active transport
1958 Oct p. 104–113	lipid-storage diseases enzyme defigurer for march of p 26–33 [1292]
forest products wood pulp, paper, cellulose rayon, waste recycling.	lipid-storage diseases, enzyme deficiency, fat metabolism genetic disease, amniocentesis. Tax-Sachs disease, lipide 10 lipid storage genetic disease,
krait process 1974 Apr. p. 52–62	amniocentesis Tay-Sachs disease, lipids 10 lipid-storage diseases
nibber filler 1051 Apr. p. 34	hpids, fatty acid synthesis microsome, acetic acid coenzyme A, lecithin
lignite beds, uranium ore badiands of Dallotte 1051 On = 26 20	synthesis not breakdown in reverse 1960 Feb. p. 46–51
limestone, architecture, sculpture, erosion, marble, atmospheric pollution	enzyme deficiency, fat metabolism, genetic disease, amniocentesis Tay-
weathering, preservation of stone 1978 June p 126-136 [3012]	Sachs disease lipid-storage diseases, 10 lipid-storage diseases
	in inpidestorage diseases
	1973 Aug p 88–97

	The transfer of Topics
Lipit Ishtar, Sumer, law code, Hammurabi, cunciform script, earliest lay	lington Ch
	47 to-least a street of the first tree, hyond wheat, agricultural
growth below a supercooling, nucleation, cryogenics, crystal	livestock feed agricultural agricultural agricultural
nquid ery stals, soap bubbles, cholestene, smeetic, nematic	may, regumes, ruminants, silage, Rhizobium bacteria
1964 Aug p 76-display devices, dynamic scattering, storage mode, television receiver	ning cei, see cytology
integrated circuits, light-emitting diode, Nixie tubes, numeric displays	living matter, elements, essential elements, metallo-enzymes, fluonne, silicon, tin, vanadium, list of elements essential to life lengthened to
1072 7000 - 64 5	2 24 1972 July p. 52-60
liquid-drop model, atomic nucleus, shell model, optical model, high- energy physics, charge exchange, spin-orbit force, resonance	was no biologist 1948 Nov n 52-55
'particles', proton, neutron, structure of the nucleus	lizard, behavioral adaptation, 'cold-blooded' animals, pigmentation
1050 Inn n 75 c	thermoregulation, reptile, behavioral thermoregulation 1959 Apr p 105-120
nuclear fission, heavy nuclei, neutron, uranium 235, shell model, fissio fragments 1965 Aug p 49-5	
inquit electronics, solion circuit elements 1057 Aug = 6	load-bearing wall, skyscrapers, curtain wall, building construction loss Mar p 44-48
liquid fuel, rocket engine, reaction propulsion, regenerative motor, technology history, status of the technology on eve of space age	loading, cargo handling, shipping, containerization, automatic control as
1940 May n. 20 2	transport 1968 Oct p 80-88
inquid-tuei consumption, fossil fuel, petroleum reserves coal reserves	lobotomy, conditioned behavior, learning, long-term memory, short term memory, octopus, touch, sensory perception, correlation of brain
energy consumption, shale, tar sands, coal liquefaction, the fuel problem 1949 Dec p 32-39	structure and function in octopus 1965 Mar p 42-50 [1006]
iiquid nelium, heat conducting properties 1956 lune n. 63	lobsters, homing instinct local clusters, supergalaxy, Milky Way, galactic clusters
inquid hydrogen, bubble chamber, cloud chamber, superheated fluid	1954 July p 30-35
liquid lasers, laser, rare-earth ions, solvation shell, chelate cage,	1977 Nov. n. 76-98 [390]
comparison of liquid, gas and solid-state lasers 1967 June p. 80-90	local government, cities, New York, metropolitan region, central city,
liquid-metal reactor, breeder reactor, nuclear power, fast neutron reactor, uranium cycle, thorium cycle, fission reactor, energy demand	suburbs, Northeast Corridor, regional planning 1965 Sept p 134-148
1970 Nov. p. 13–21 (339)	lock-and-key theory, enzymes, catalysis, digestion, respiration,
liquid natural gas, natural gas, pipelines, tankers, storage, distribution of LNG 1967 Oct p 30-37	fermentation, science history 1948 Dec p 28-39
energy resources, fuel imports, technology assessment, risk estimation,	is a protein made? 1953 Sept. p. 100-106
tankers, LNG 1977 Apr p 22-29 liquid phase, superfluidity, helium 3, gas phase, solid state physics,	enzyme action, molecular structure, protein shape change, protein structure 1973 Oct p 52-64 [1280]
quantum effects, quantum fluids, phase transitions	antibodies, antigens, active site, immune response, immunoglobin,
1976 Dec p 56-71 liquid planets, Great Red Spot, Jovian moons, atmospheric circulation,	Bence-Jones proteins, Fab fragments, Fc unit 1977 Jan p 50-59 [1350]
Jupiter, solar system 1975 Sept p 118-126	locomotion, badger, dog, horse, cheetah, deer, comparative anatomy,
liquid state, crystal structure, metals, X-ray diffraction, physics of metals	running, how animals run 1960 May p 148-151
in the liquid state 1969 July p 72–82 liquid structure, five-fold symmetry, polyhedral-hole model, geometrical	walking, primates, human evolution, bipedal walking, muscle, bone, fossil record, origin of human walking 1967 Apr p 56-66 [1070]
arrangement of molecules in a liquid 1960 Aug p 124-134 [267]	animal behavior, herpetology, snake, lateral, rectilinear, concertina and
liquids, boiling, heat transfer, nuclear boiling, transition boiling, film boiling 1954 June p 64-68	nervous system, walking, Edweard Muybridge photographs, control of
cavitation, droplet-levitation technique, negative-pressure concept,	walking 1976 Dec p 12-80 [1340]
tensile strength, surface tension 1972 Dec p 58-71 liquified hydrogen, energy resources, hydrogen, electrolyzer technology,	locust, aerodynamics, insect flight, wind tunnel, efficiency of locust flight 1956 Mar p 116-124
hydrogen energy economy, cryogenic storage, fuel cell	muscle contraction, insect flight, flight control system, nerve network,
literacy, agricultural production, poverty, education, economic	insect behavior, animal navigation, nervous system, insect flight,
development, language, Peru, Cornell-Peru experiment in economic	response to stimuli, schistocerca gregaria 1971 Aug p 74-81 [1231]
development 1957 Jan p 37-45 lithiasis, crystal structure, kidney calculi, X-ray diffraction, bladder	logic, computer technology, digital computer, analogue computer, relay
stones, gallstones, urnary calculi 1968 Dec p 104-111	computers, binary arithmetic, automatic control, computer memory.
lithium, tritium, cosmic radiation, nuclear reactor, radioisotope, tracer chemistry 1954 Apr p 38-40	control systems, status of 'mathematical machines' 1949 Apr p 28-39
catalysis, polymerization, stereoisomers, promotion of polymerization	mathematics, set theory, paradox, non-Euclidian space, non-
by hthrum 1963 Jan p 88-102 interstellar matter, stellar formation, variable stars, infrared radiation,	commutative algebra, Hilbert spaces, science, mathematics 1900- 1950, undecidable questions 1950 Sept p 40-42
vounteet stare? 1967 Aug p 30	mathematics, Carroll, Dodgson, 'Alice in Wonderland', Lewis Carroll (Charles Lutwidge Dodgson), biography 1956 Apr p 116-128
hithosphere, artificial diamonds, ultra-high pressure, coesite, borazon, properties of matter under 2 × 10 ⁶ p s 1 1959 Nov p 61-67	Godel's proof, mathematics, paradox, philosophy of science
hthospheric cycle, atmosphere, Earth crust, geochemical cycle, hydrologic	undecidable problems in axioms of arithmetic 1956 June p 71-86 antinomy, paradox, mathematical logic, barber paradox, undecidable
cycle 1974 June p 72–79 [414] lithospheric subduction, earthquake zones, island arcs, mountain	questions, Godel's proof, Grelling's paradox, Epimenides' paradox,
formation plate tectonics, sea-1100f spicading, adduction zones	Zeno's paradox, paradox and foundations of logic 1962 Apr p 84-96
volcanic zones 1975 Nov p 88-98 [919] volcanic zones 1975 Nov p 88-98 [919] hver function, metabolism, alcohol tolerance, drug abuse, acetaldehyde 1953 Dec. p. 86-90	games theory, computer theory, algorithms, problem solving Turing
1752 200 9 0 0 0	machine 1965 Nov p 98-106 grammar, truth, philosophy, sentence metalogic, mathematical proof,
chemotherapy, drug effects, pharmacology, vaccine, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102~112	antimony of the har, proof and truth 1969 June p 65-77
antiologis, memeri care, network, drug inactivation, enzyme,	confirmation theory, hypothesis-testing inductive proof, philosophy of science, probability 1973 May p. 75-83
metabolism of drugs, cirthosis	logic circuits, binary anthmetic, computer technology, integrated circuits switching elements, computer memory, microelectronics, hardware
alcoholism, alcohol metabolism, tatty liver, mattheward 1976 Mar p 25-33 [1336] calones', acetaldehyde, cirrhosis	Switching cionetics, companie areas, years

			1050 T 05
	966 Sept p 74-85	'secrets betrayed' at Great Falls	1950 Jan p 27
computer memory, integrated circuits, metal-oxide s	emiconductors,	forensic psychiatry, testimony at Hiss trial	1950 Mar p 29
microelectronics, large-scale integrated circuits, tra	ansistor	visa policy, scientists denied US visas	1952 Mar p 35
	1970 Feb p 22-31	'Security, Loyalty and Science', award to Walter Gell	
logic elements, binary arithmetic, Boolean logic, integr	ated circuits, large-		1952 June p 36
scale integrated circuits, microelectronics 1977 Se	ept p 82–106 [376]	visa policy, visa-troubled psychologists	1952 July p 36
logic gates, fluid dynamics, amplifiers, switching, Coar	ida effect	visa policy, visa to Pauling	1952 Sept p 72
rogic gates, riale Symmetry, every	1964 Dec p 80-88	visa policy, meetings go abroad	1953 Mar p 47
integrated circuits, metal-oxide semiconductors, mic	roelectronics,	McCarthy on stage	1954 Feb p 44
semiconductor technology, transistor 1977 S	Sept p 70-81 [375]	fear of McCarthy	1954 Apr p 44
logic machine, Stanhope demonstrator, Boolean algebra		'Oppenheimer case', A E C, leaks from Oppenheime	r hearing
syllogisms	1952 Mar p 68-73		1954 June p 44
Loglan, artificial intelligence, language, linguistics, 'lar	nguage of logic'	'Oppenheimer case', A E C, Oppenheimer a security	nsk
Dog.min di tillotta intoniganos, imagas g / g	1960 June p 53-63		1954 July p 42
London plane, city trees, pollution effects, tree cloning		'Oppenheimer case', A E C, Oppenheimer verdict su	stained
Norway maple 19	76 Nov p 110-118	••	1954 Aug p 36
long-range forces, ionic bonds, covalent bonds, hydrog		scientists quit government over procedures	1954 Sept p 70
Waals force, chemical bond, antigen-antibody rea	iction, proposed	'Condon case', Condon's multiple jeopardy	1955 Feb p 54
intermolecular long-range force	1948 Oct p 14-17	· 'Oppenheimer case', A E C, boycott of Oppenheimer	r boycott
Scotch verdict	1950 Mar. p 28		1955 May p 54
long-term memory, conditioned behavior, learning, she	ort-term memory,	visa policy, courts compel visas	1955 Sept p 72
lobotomy, octopus, touch, sensory perception, co	rrelation of brain	science funding, eligibility and political attitudes of F	ederal grantees
structure and function in octopus 1965 M	Mar p 42-50 [1006]		1956 May p 54
digit recall, short-term memory, memory, tachistosc	cope	political views 'no obstacle' to research funding	1956 Oct p 67
1966	July p 90–95 [499]	NSF, Yellin case 'In lieu of ability'	1961 Aug p 61
information retrieval, learning, memory, short-term		LSD: Lysergic acid diethylamide	
1971	Aug p 82–90 [538]	LSD, ergot, psychosis, psychoanalysis, experimental ps	ychoses
longevity, aging, gerontology, senility, medical care	1973 Sept p 44-52		1955 June p 34–39
age of the mother	1950 Sept p 48	auxins, serotonin, comparative physiology, neurophy	siology,
loop growth, crystal growth, spiral growth, screw dislo	cation	physiological function of serotonin	1957 Dec p 52-56
1 g ., g. , 1 G	1955 Mar p 74-80	alkaloids, plant physiology, morphine, strychnine, 'he	emlock',
loose-snow avalanche, snow, avalanche, slab avalanch	e	physostigmine, caffeine, contine, quinine, cocaine,	rıcınıne, human
,	1954 Jan p 26-31	toxins in plant physiology 1959 July	p 113–121 [1087]
Lorentz force, artificial satellite, geomagnetism, magr	ietosphere, solar	alkaloids, hallucinogens, mental health, drug addiction	on, consciousness
radiation, Van Allen belts, radiation belts, aurora	a, physics of Van	alteration, psychosis, psilocybin, mescaline, effects	of LSD
Allen belts	1963 May p 84-96		Apr p 29-37 [483]
Lorentz tranformation, ether drift, Fitzgerald contrac	tion, Maxwell's	lubrication, friction, stick-slip friction, bearing, violin b	ow, uses and
equations, relativity theory, life and work of G I	F Fitzgerald		56 May p 109-118
	1953 Nov p 93-98	bearing, friction, mechanical engineering, sliding, rol	
Lorentz transformation, Einstein, relativity, child dev	elopment, child's	contactless bearings	966 Mar p 60-71
view of reality	1957 Mar p 46-51	Beilby layer, ferrograph analysis, friction, machine w	ear, metal fatigue,
lost-way casting, metallurgy, New World archeology,	New World	particles of wear, wear	1974 May p 88-97
archeology, Old Copper culture, Peru, copper, go		bearing, friction, journal bearing, wear	1975 July p 50-64
Columbian, New World, 4,000 B C	1966 Apr p 72–81	luciferase, bioluminescence, glow worm, firefly, abyssal	fish, 'cold light'
loudness variations, hearing, musical dynamics, music			1948 May p 46-49
muscial notation, musician performance	1974 Nov p 78-95	bioluminescence, firefly, insect behavior, insect physic	iology, luciferin,
lovebird, animal behavior, evolution, innate behavior		chemotaxis, biochemistry of bioluminescence	2 20 20 11 11
interspecies differentiation of behavior	1962 Jan p 88–98	lugiforin hydromenas Gastler mars habarra	Dec. p 76-89 [141]
low-energy radiowaves, cosmology, universe expansion	or nameval fireball	luciferin, bioluminescence, firefly, insect behavior, insec	et physiology,
background radiation, 'big bang' theory, isotrop helium abundance, 'big bang' theory and cosmic		luciferase, chemotaxis, biochemistry of biolumines	
radiation	1967 June p 28–37	Lucretius, atomic theory, Greek science, Renaissance so	Dec p 76-89 [141]
low-grade ores, iron ore, mining, ore beneficiation, h	ematite taconite		70 May p 116–122
Grand orest treat timing, ore beneficiation, in	1968 Jan p 28–35	lugworm, Annelida, feather duster worm, biological clo	cl circadian
low-potential energy, energy resources, solar energy,		rhythm, marine worm	59 June p 132–142
windows, hot water, Sun can supply most of the	: 30 percent of fuel	lumbar vertebrae, bipedal walking, human evolution, pe	elvis lower-back
energy consumed in domestic heating	1951 Feb p 60-65	pain, 'scars of human evolution' 1951 I	Dec p 54-57 [632]
low temperature, hot springs, adaptation, high temperature	erature, glaciation	luminiferous ether, ether drift, special relativity, speed of	of light.
	1949 Feb p 46-49	interferometry, Michelson-Morley ether-drift expe	riment
low-temperature physics, cryogenic technology, heliu		196	4 Nov n 107-114
superconductivity 194	9 June p 30-39 [206]	luminosity, flame chemistry, chemical kinetics, flash tul	e, ram jet, heat.
superfluidity, helium 1, helium 2, seond sound qu		velocity, spectroscopy	1953 May n 29_35
liquid helium properties 195	8 June p 30-35 [224]	iunar evolution, Apollo project, lunar magnetism, magn	etometers on
superconductivity, critical field strength, superconductive has been su	nductive motor,	moon, space exploration	1971 Aug p 62-73
fluxtrap, superconductive bearing, superconductions of superconductivity		Apollo project, lunar rocks, space exploration	1971 Oct p 48_58
molecular magnet coolers	1960 Mar p 74-82 1957 Sept p 110	iunar rocks, moon, solar system. Apollo missions 19	75 Sept p 07 102
lower-back pain, bipedal walking, human evolution,	lumbar vertebrae	lunar exploration, moon, space exploration, lunar surfa	
pelvis, 'scars of human evolution' 199	51 Dec. n. 54-57 [632]	design Ranger missions	1966 Jan p 52-67
lowest temperature, 006 degrees absolute at Leyden	1949 Jan n 28	moon surface, spacecraft, lunar geology, cratering, st	ructure, history,
loyalty and security, McCarthy, U.S. Army, Fort M.	onmouth Scientists'	origin of moon from nine spacecraft visitations 1 moon, lunar landing sites, manned space flight, remo	96/ Mar p 60-74
Committee on Loyalty and Security, report on	Signal Corps	tanding sites, mainled space night, remo	te sensing
Engineering Laboratory	1954 June p 29-31	Apollo 11 landing and Mariner 6	Oct p 54-72 [889]
A E.C., clearance procedures	1948 Sept p 28	magnetometer, seismometer	1969 Sept p 88
scientists' 'loyalty problem' committee clearance with I ederal science funding	1948 Nov p 24	lunar geology, moon, satellite, stratigraphy cratering, to	1970 Jan p 49
A \ A S protests I ederal procedures	1949 Aug p 25	Ranger photographs	964 Dec = 20 47
to the character contraction between the	1949 Oct p 27	- •	964 Dec p 38-47

moon surface, spacecraft, cratering, lunar explor	alian structura	1.1	
history, origin of moon from nine spacecraft v	isitations	lying, anxiety, polygraph, psychosomatic illness rate, skin temperature, 'lie detector' mis-na	, guilt, breathing, pulse med
hmar gravitation, atmospheric tides, solar gravitatio	1967 Mar. p. 60-7	4	1967 Jan n 25-31 [503]
lunar landing sites, moon, lunar exploration, manne	on 1954 May p, 36-3		d. lymph nodes lymph
sensing 16	ed space tiight, remote	vessels, Starlings' hypothesis, lymphatic cir	culation, lymphedema
	769 Oct. p 54-72 [889	ine body's 'second circulation'	1963 June p 80-90
lunar luminescence, moon, solar radiation, Kepler of meteorites, impact of solar protons?	crater, solar flares,	lymph nodes, lymphatic system intercellular flui	d lymph ressels lymph
meteorities, impact of sour protons? meteoritie debris(?)	1965 May p. 28-31	ducis, Stationes' hypothesis lymphatic area	ilation lymphedema the
lunar magnetics A -11	1964 Mar. p. 50	body's 'second circulation'	1963 June p 80-90
lunar magnetism, Apollo project, lunar evolution, n	nagnetometers on	lymph vessels, lymphatic system intercellular file	id lemah nadec lemah
moon, space exploration	1071 Aug - 62 23	ducts, Starlings' hypothesis, lymphatic circu	dation limphedems the
lunar occultation, red shift, radio galaxies, synchrotic	ron radiation, radio	hodels lane and all and a	1963 June p 80-90
astronomy, quasars found to be extra-galactic	1963 Dec. n. 54-62	lymphatic circulation, lymphatic system, intercell	
gravity constant, interplanetary radar-ranging, lu	nar orbit, relativity	The state of the s	titat titilu, tympit nouce,
theory, evidence for decrease of gravitational co	onstant	lymph vessels, lymph ducts, Starlings' hypot	
	1976 Feb n 44_52	body's 'second circulation'	1963 June p 80-90
lunar orbit, day's length, Earth-Moon system, moon	tides	, and the state of	s, tympn vessels, tympa
	1972 Apr. p 42-52	ducts, Starlings' hypothesis, lymphatic circul	ation, lymphedema me
gravity constant, interplanetary radar-ranging, lui	nar occultation		1963 June p 80-90
relativity theory, evidence for decrease of gravit	nai occuntation,	antibodies, thymus, immune system, lymphocy	tes, thymus implant in
training mostly, or defice for decrease of gravit	anonai constant	mouse, humoral factor	1964 July p 66-77
lunar-ranging experiment, Apollo project, laser refle	1976 Feb. p. 44-52	antibody molecule, antigens, B-cells, immune s	ystem, lymphocytes, 1-
motion corner reflector, Fouth Many Property	ction, moon, orbital	cells 19	973 July p 52-60 [1276]
motion, corner reflector, Earth-Moon distance		lymphedema, lymphatic system, intercellular fluid	, lymph nodes, lymph
lungs made Amalla annual 1	1970 Mar. p. 38-49	vessels, lymph ducts, Starlings' hypothesis, ly	mphatic circulation, the
lunar rocks, Apollo project, lunar evolution, space es	xploration	body's 'second circulation'	1963 June p 80-90
toman most a second	1971 Oct p 48-58	lymphocytes, antibody prc	tom DNA,
lunar evolution, moon, solar system. Apollo missie		autoimmune disease,	
	1975 Sept p. 92-102	19	762 Nov. p 50-57 [138]
lunar soil, Apollo project, moon, meteorites, regolith		antibodies, thymus, lymphatic system, immune s	system, thymus implant
history of moon	1970 Aug. p. 14-23	in mouse, humoral factor	1964 July p 00-11
lunar surface, lunar exploration, moon, space explora-	ation, spacecraft	antibody production, antigen-antibody reaction,	RNA synthesis.
design, Ranger missions	1966 Jan p 52-67	immune response, clonal selection theory	
moon, telemetry, space exploration, high-resolutio	n photography,	1964	Dec p 106-115 [199]
Lunar Orbiter space missions	1968 May p 58-78	automatic cell sorting, blood cell analysis, compa	iter analysis, pattern
Ranger 7 photographs	1964 Sept. p 80	recognition, automatic analysis of white cells	1970 Nov p 12-02
Luna 9 photographs	1966 Mar p 56	antibodies, antigen complement, immune respon	se, virus antigens,
Surveyor III radiation analysis	1967 Nov. p. 52	virus disease, autoimmune disease, allergic rea	ction, immune-
lunar surface material, Apollo 11 and 12 samples con		complex disease plomerulonenhritis lymphoc	vue chonomeningius,
•	1970 May p 56	serum sickness 197	3 Jan p 22-31 [1203]
lunar tide, Earth, ionospheric winds, the ionosphere		cell culture cell differentiation cell-surface antique	ens, immune response,
	955 Sept. p 126-138	ımmunoglobin 1973	June p 82-91 [1215]
lung, human physiology, breathing, alveoli, mechanis		antihady malagula antigens R-cells immine syst	em lymphatic
	1960 Jan p 138-148	system T-cells 197.	3 July p 32-00 [1210]
neonatal physiology, breathing, respiration, first br	eath of newborn	antihodies antigens allergic reaction immine res	monse, anaphylactic
	1963 Oct p. 27-38	shock immunology 1973	Nov. p. 34-00 (120-1
gas exchange, thorax, pulmonary ventilation, breatl	hing, alveoli, human	antibodies, bursa, cell differentiation, humoral imi	munity, B-cells, 1-
physiology, vital capacity, mechanics and physio	logy of breathing,	cells, immune system, thymus 1974	Nov p 38-12113003
	Feb p 56-68 [1034]	antibodies, cell membrane, histocomptability, anti	gens, immune
gill, oxygen transfer, carbon dioxide, gas exchange,	water-breathing by	response, immunoglobin, B-cells, T-cells 1976	May p 30-39 [1330]
mammals, breathing, animal experiments in water	er-breathing	Lysenko, genetics, potato virus, virus disease, vernali	
1968 A	Aug. p 66-74 [1123]	the Lysenko affair	1962 NOV P 71""
acute respiratory failure, intensive care, tracheoston	ny, alveolar	receives Stalin Prize	1949 May p 26
collapse, emphysema, pathogenesis and treatmen	t of acute	beginning of the end	1953 Sept p 74
respiratory failure	1969 Nov p 23-29	Lysenko eclipsed, hybrid corn planted in USSR	1956 June p 60 1954 Sept p 82
fetal lungs, infant, hyaline membrane disease, surface	ctant	Lysenko off pedestal, Einstein on in USSR	
	1973 Apr p 74-85	Li senko resurgent, USSR, geneticists barred from	1958 Nov p 60
lung cancer, carcinogenesis, cigarette smoking, tobacco	o, human	meeting	
physiology, coronary disease, effects of smoking	1962 July p 39-51	Lysenkoism, Lamarck, acquired characteristics, genot	ype, evolution
hing collarse alveoli premature infants, lecithin, breat	thing, surface	phenotype, mutation, ostrich calluses, speciation,	horostarictics
tension, surfactant, hyaline membrane disease, so	aplike agents	orthodoxy, Darwinism, experiments in acquired o	1953 Dec p 92-99
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nachine communication, communication	technology, cybernetics,
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nachine tool, automatic control, batch pr	ocess, digital-to-analogue
conversion, numerical instructions, a	1952 Sept p 101–114
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MacKenzie river, New World archeology	
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'magic numbers', atomic nucleus, shell m	
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'magneplane' vehicle, electromagnetic fli	
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     memory, microelectronics, advent of integrated-circuit
                                                      1967 July p 18-31
     semiconductor memories
magnetic domains, magnetism, iron, cobalt, ferrites
                                                      1955 Jan p 68-73
  electron spin, materials technology, ferromagnetism, hysteresis,
                                                   1967 Sept p 222-234
     magnetic properties of materials
  cobalt-rare earth alloys, magnetism, permanent magnets, anisotropy,
                                                    1970 Dec p 92-100
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  computer memory, magnetic-bubble memories
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     cores mercury delay line, magnetic tape
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     Milky Way, particle acceleration, supernovae fundamental research,
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   electromagnetism magnetism, force-free windings, million gauss field
                                                      1958 Feb p 28-33
   solar magnetism, Zeeman effect, sunspots, mapping changes in solar
                                                      1960 Feb p 52-62
     magnetic field
   Earth core, electromagnetic waves, micropulsations, Earth mantle,
     longest electromagnetic wave
                                                   1962 Mar p 128-137
   Jupiter, Van Allen belts, radio emissions, origin of Jovian radio waves
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   magnetic resonance, atomic structure, high pressure, electric field of
     atom, behavior of atoms under high pressure 1965 Jan p 102-108
   magnetism, superconductors, Bitter solenoid, U.S. National Magnet
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   solar magnetism, Sun cycle, photosphere, chromosphere, solar
     atmosphere, 11-year solar cycle explained
                                                     1966 Nov p 54-62
   volcanic rocks, paleomagnetism, geomagnetic reversals, sea-floor
     spreading, reversals of Earth's magnetic field
                                                      1967 Feb p 44-54
   plasma instability, thermonuclear reaction, fusion reactor, magnetic
     bottle, anomalous diffusion, nuclear power, leakage of plasma
                                                      1967 July p 76-88
   Sun, solar atmosphere, sunspots, rotation, eddies, solar atmospheric
     circulation
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   interstellar gas radio 'photographs', Doppler shift, structured in shells
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 magnetic flotation, ultracentrifuge, angular momentum, ultra-high speed
      rotation, molecular weight determination, 90 million r p s
                                                   1961 Apr p 134-147
 magnetic impermeability, superconductors, Meissner effect, quantum
      mechanics, magnetic field, quantized vortexes, quantum effects in
      superconductors
                                                      1965 Oct p 57-67
 magnetic levitation, electromagnetic flight, transportation, linear
      induction motor, linear synchronous motor, 'magneplane' vehicle,
      superconductors
                                                      1973 Oct p 17-25
   applied to metallurgy
                                                         1952 July p 36
 magnetic moment, antimatter, g factor, electron, electron spin, positron,
      magnetic bottle
                                                      1968 Jan p 72-85
 magnetic monopoles, elementary particles, electromagnetic radiation,
      particle accelerator, search for elementary particle of magnetism
                                                   1963 Dec p 122-131
    observation reported
                                                         1975 Oct p 52
 magnetic pumping, fusion reactor, nuclear power, magnetic bottle, plasma
      confinement, deuterium, tritium, stellerator
                                                      1958 Oct p 28-35
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      wandering poles, Earth's magnetism
                                                   1955 Sept p 152-162
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                                                   1961 Oct p 146-156
    comet, geomagnetism, tektites meteorites, meteoritic impacts
                                                     1967 July p 32-38
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                                                1968 Dec p 60-70 [875]
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1960 June n 92-104	numbers 1960 Apr n 55-63
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1967 Mar p 114-123 cobalt-rare earth alloys, permanent magnets, magnetic domains,	agriculture, plant genetics 1976 Sept. p. 180-1976 malaria, sickle cell disease, amino-acid substitution, anemia, hemoglobin
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1971 Mar p 74-84	filariasis leishmaniasis plague vellow fever, typhus, epidemiology
Earth, decreasing strength of magnetic field 1957 Feb p 64	animal infection and human disease 1960 May p 101-170
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nower name movers steam turbines, gas turbine, internal	food supply, human population, hunger, human nutrition Incapanna eland, capybara manatee, mussels, developing countries,
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1950 Feb p 11–15	industrial manipulators 1964 Oct p 88–96
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1956 Mar p 64-76 [616]	mannan, algae, xylan, plant cell wall, cellulose, xylan mannan in place of
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1966 Aug. p 72–81 [1047]	computer applications, programmable robot for product assembly
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television camera, cratering, surface pictures and map of Mars 1970 May p 26-41	reddish color, carbon suboxide flakes(7) 1970 Feb p 46
Mars, Phobos photographed 1970 July p 50	radar and spectrometric measurements of tonography
Mariner 7 photographs, Mars 1969 Sept p 97	1970 Mar p ov
Mariner 9 results, Martian topography, Martian atmosphere, planets,	Mariner 7, Phobos photographed 1970 July p 50
solar system, space exploration, polar cap, 'braided' channels, dune	orbiting probes planned 1970 Sept p 80 spacecraft photographs analyzed 1971 Apr p 50
fields, photomosaic, volcanoes on Mars 1973 Jan p 48-69	of the same of the
Mariner spacecraft, Venus expedition 1974 Apr p 48	1077 May p 49
markedness/unmarkedness dyad, verbal communication, communication,	1976 Dec p 34
acoustic formants, phonetics, morphemes, syntax, context sensitivity, invariant/variable dyad 1972 Sept p 72-80	life-experiment ambiguities 1977 Feb p 48
narkers, electronic switching, telephone switching, electromechanical	marchland climate swamp ecology entrophication, wellands natural
switching, electronic replaces electromechanical switch	history of march effect on climate 1908 UCL D 114-122 (577)
1962 July p 132–143	marsupial, opossum, death-simulation, animal behavior, playing possum by opossum and other animals 1950 Jan p 52-55
narket, commerce, agricultural system, peasants, peasant markets in	10 mg v v v v v v v v v v v v v v v v v v
Haiti 1960 Aug p 112–122 [647]	opossum, folklore, natural history animal behavior, hopping energetics, kangaroos, mammalian evolution
narket networks, anthropology, central-place theory, People's Republic	1977 Aug p 78-89 [1366]
of China, Guatemala, rural markets 1975 May p 66-79 market process, decision theory, energy economics, power production,	Marting atmosphere, Martian topography, Mariner 9 results, planets
technology assessment, tort law, economic planning	solar system, space exploration, polar cap, 'braided' channels, dute
[97] Sept p 191-200 [6/1]	fields, photomosaic, volcanoes on Mars 1973 Jan p 40 0
Markos chain mathematics, probability, combinatorial analysis, normal	Mars, dust storms, dry ice fogs, wind erosion, Mariner voyages 1977 July p 34-43
eurie Brownian motion, Pascal's triangle, statistics, probability	Martian moons, Deimos, Mars, Phobos, Manner spacecraft missions
1964 Sept p 92-106	1977 Feb p 30~37 [3,2]
narriage, Africa, sister exchange, marriage contracts 1975 Dec p 84-94	evidence of chandratic composition 1978 Mar p 10
narriage, Artica, sister exchange, disease, foundling institutions, narriage age, birth control, celibacy, disease, foundling institutions, infanticide, Malthusian doctrine, population growth, population	Martian surface, Mars, Viking landers, Viking orbiters Martian winds.
	orbital and ground photography of Martian landscape 1978 Mar p 76-89 [399]
control in Europe 1750 anthropology, Sebei tribe	1978 Mar p 70-07 [37]
1002 400 - 40	Martian topography, Martiner 9 results, Martian atmosphere, planets solar system, space exploration, polar cap, 'braided' channels, dure
narriage partner, girl next door 1953 Aug p 48	fields, photomosaic, volcanoes on Mars 1973 Jan p 40-07
American Negro, Skill Color, blood typing,	No. of the state o
gene, population genetics, genetic inclining of 1954 Oct p 80-85	Massian winde Mace V L Line, VIK (" Marida Surface
death rate, birth rate, vital statistics,	orbital and ground photography of Martian landscape 1978 Mar p 76-89 [399]
marriage rate, abortion, population, death, across registers, York, menarche, infant mortality, 1538-1812, parish registers, York, 1970 Jan p 105-112	MARV: maneuverable reentry vehicle
menarche, infant mortality, 1336-1612, partial 1970 Jan p 105-112	414/454 / A SHINGAW TO THE TO THE TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE

England

MARV, mutual assured destruction, counterforce strategy, military	glass fiber, synthetic fiber, composite materials, plastics, properties of
expenditures, SALT, arms race, MIRV 1974 May p 20-31	'two-phase' materials 1962 Jan p 124-134 wear, adhesive wear, abrasive wear, corrosion, fatigue wear, surfaces in
maser: microwave amplification by stimulated emission of radiation	sliding contact 1962 Feb p 127–136
maser, atomic clock, ammonia maser, cesium clock, zenith tube, mercury mirror improvements on sidereal time 1957 Feb p 71–82 [225]	electromagnetism, superconductivity, shaped field, magnetic bottle,
mirror, improvements on sidereal time 1957 Feb p 71-82 [225] microwave amplification, stimulated emission, quantum mechanics,	development and applications of supermagnets
coherent radiation, principles and uses of maser	1962 June p 60–67 [279]
1958 Dec p 42-50 [215]	crystal structure, steel alloys, ausform process, heat-treating for
laser, coherent radiation, stimulated emission, first lasers as 'optical	strength 1963 Aug p 72–82
masers' 1961 June p 52–61 [274]	glass metals, ceramics, polymers, chemical band, composite materials,
microwaves, interstellar matter, hydroxyl radical, infrared astronomy,	atom, elements, introduction to single-topic issue on materials 1967 Sept p 68-79
energy levels, protostars, interferometry 1968 Dec p 36-44	crystal structure, solid-state electronics, X-ray crystallography, metals,
cosmic masers, hydroxyl maser, water maser, maser star, interstellar matter, astrophysics, quantum mechanics, 'nature imitates art'	semiconductor, nonmetals, amorphous solid, electrical conductivity
1978 June p 90–105	1967 Sept p 80–89
talking maser 1961 Mar p 91	alloys metals, crystal structure, grain boundaries, lattice defects
stimulated by two photons 1965 Oct p 40	dislocations electron 'gas', nature of metals 1967 Sept p 90-100
see also laser	aluminates ceramics crystal structure, silicates, heat resistance ionic
maser star, maser, cosmic masers, hydroxyl maser, water maser,	bonds, covalent bonds, nature of ceramics 1967 Sept p 112–124
interstellar matter, astrophysics, quantum mechanics, 'nature	amorphous solid, glass, supercooling, crystal structure, geometry of glass, two-phase glasses 1967 Sept p 126–136
imitates art' 1978 June p 90–105 maser telescope, precision of solid-state maser 1958 June p 46	polymers, natural polymers, plastics, cross-linking, covalent bonds
maser telescope, precision of solid-state maser 1958 June p 46 mass, spectroscopy, vacuum, ultra-high vacuum, oil diffusion pump,	1967 Sept p 148–156
sputter-ion pump, cryogenic pump, vacuum down to 10 12 mm of	composite materials, whiskers, fiber glass, two-phase materials, fiber-
mercury 1962 Mar p 78–90	reinforced composites, matrix, eutectics 1967 Sept p 160-176
mass-communication media, communication, message systems, television	heat conduction, phonon thermal waves thermal conductivity, thermal
violence, cultural patterns, sociology, mass communications as social	properties of materials 1967 Sept p 180–188
environment 1972 Sept p 152–160 [679]	electrical conductivity, Fermi surface, semiconductor, quantum
mass communications, elections, public opinion, attitude survey 1953 May p 46-48	mechanics, charge carriers electron mean free path, electrical properties of materials 1967 Sept p 194–204
mass production, assembly lines, Sweden, work satisfaction, worker	solid state physics crystal defects epitaxial growth, surface chemistry,
teams, management science, 'scientific management'	precipitation in solids 'doping', chemical properties of materials
1975 Mar p 17–23	1967 Sept p 210-220
mass spectroscopy, spectroscopy, separation techniques, ion beam	electron spin, ferromagnetism magnetic domains hysteresis magnetic
1953 Mar p 68–74	properties of materials 1967 Sept p 222–234
spectroscopy, age of elements, age of universe element formation,	spectroscopy, color, photoelectric effect, laser, transparency optical properties of materials 1967 Sept p 238–248
nucleochronology, radioactive nuclei, stellar evolution, supernovae 1974 Jan p 69-77	input-output analysis, interchangeability of materials, cost assessment,
mass standard, cesium clock, length standard, time standard temperature	price trends, metals, plastics, competition among materials
standard, interferometry, measurement 1968 June p 50–62	1967 Sept p 254-266
mass transit, underground transport, pneumatic propulsion, railway,	zone refining, zone melting, distribution coefficient, germanium
gravity propulsion, transport by 'pedulum' train 1965 Aug p 30-40	silicon, single crystals purified 1967 Dec p 62–72
railway, traffic patterns, cities commutation automobile,	steel, transformation-induced plasticity, strength ductility 1968 Nov. p. 36-45
transportation, Bay Area Rapid Transit system as model for urban transportation 1965 Sept p 162-174	Dance of the Solids, a poem by John Updike, occasioned by the
urban planning, central city, cities, highway engineering open space,	September 1967 issue 1969 Jan p 130–131
diversity, 'paths' 1965 Sept p 209-219	metalliding, superplasticity, microduplex structure thermomechanical
cities, urban transport, computer modeling personal-transit systems,	processing, grain structure, metals that can be formed like plastics
systems analysis 1969 July p 19–27	1969 Mar p 28–35
massive nuclei, cosmic radiation 1951 May p 26-30 cosmic radiation, high-energy physics, Milky Way, magnetic field,	explosions, shock waves solids, phase transitions 1969 May p 82-91 heat resistance, polymers plastics, aromatic hydrocarbons, high-
particle acceleration, supernovae, fundamental research, where do	temperature-resistant plastics 1969 July p 96–105
cosmic rays come from? 1953 Sept p 64-70 [239]	alloys metalliding diffusion, surface alloy, molten fluoride, electrolysis
massive stars, galaxy, stellar evolution nebulae, stellar associations,	1969 Aug p 38-46
massive stars are short-lived 1956 Feb p 36-41	automobile propulsion, electric power generation, energy storage,
material resources, recycling, biosphere, nonrenewable resources,	composite materials, flywheels 1973 Dec p 17–23
materials, heat, temperature limits, ablation rocket nozzle, turbine	inorganic polymers, polymer structure polymeric sulfur, silicon polymers 1974 Mar. p. 66-74
bucket, high temperatures materials 1954 Sept p 98–106	polymers 1974 Mar p 66-74 corundum, crystal structure, cubic boron nitride, diamond, hardness,
nuclear power, recycling, fusion reactor, fusion torch, energy	Mohs scale 1974 Aug p 62–70
transformation, plasma containment, magnetohydrodynamics	atomic structure, crystallographic techniques 'extended fine structure'
1971 Feb p 50-64 [340]	ellect, X-ray absorption 1976 Apr. p. 96-103
materials technology, catalysis, polymers, industrial chemistry, stereoisomers, synthesizing giant molecules 1957 Sept. p. 98–104	materials wanted, catalogue of dreams 1953 Aug p 40
catalysis, polymers, industrial chemistry, stereoisomers synthesizing	maternal behavior, heartbeat, mother-child interaction, fetal conditioning left-side preference in babyholding 1973 May 24-29
giant molecules 1957 Nov. p. 98–104	maternal deprivation, behavioral psychology, emotional deprivation,
building construction prestressed concrete, architectural engineering	rhesus monkeys, surrogate mother, infant monkey 'love'
crystal structure, metals, aligned crystals alignment of crystals for	1959 June p. 69 74 14701
control of mechanical and magnetic properties	social deprivation, comparative psychology, thesis months are necessity
1959 Apr n 125_141	group, experiments in social deprivation
crystal structure, stress fracture, metallurgy, cracks and fracture	comparative psychology, parental care, emotional development,
1060 Eab m 01 101	autormat behavior early experience and emotional development
crystal structure magnetism, ferrites microwave radiation, computer memory, industrial applications of iron oxides 1960 June p 92-104	Cypermicals with rate 1063 from - 130 144 times
e, is more place grass ceramics amorphous solid properties of glace	material inititiance, Cytopiasmic inheritance reciprocal ground
as 'undercooled liquid 1961 Jan p 92-104	linked traits non-Mendelian inheritance, male sterility, paramecium, chloroplast, plastids, cytogene, review of cytogene for an exiter

chloroplast, plastids, cytogene, review of evidence for an extra-

chromosomal genetics 1950 Nov. p 30-39 [39] cytoplasmic inheritance, extranuclear DNA, mitochondria, chloroplasi	
Chlamydomonas 1965 Ian n 70-70 11000	Desargue's theorem, Pascal's theorem, projective peometry as
Chiamydomonas 1965 Jan p 70-79 [1002 maternal mortality, abortion, birth control, infant mortality, public	systematized by Poncelet and Klein 1955 Ian n 80-86
opinion, legal status, incidence in U.S and other countries	Monte Carlo method, Buffon needle problem random numbers,
1060 Inn - 01 07 1100	probability 1955 May p 90-96
1969 Jan p 21-27 [1129 abortion, population, birth control, public health, infant mortality,	straight line, Euclidean geometry, geometry, curved line, reach and
international comparison of experience with legalization of abortion	limits of axiomatic approach 1956 Mar p 104-114
tomparison of experience with legalization of abortion	logic, Carroll, Dodgson, 'Alice in Wonderland', Lewis Carroll (Charles
1977 Jan p 21-27 [1348 mathematical concepts, child development, how children form	Lutwidge Dodgson), biography 1956 Apr p 116-128
	Godel's proof, logic, paradox, philosophy of science, undecidable
72 740	problems in axioms of arithmetic 1956 June p 71-86
mathematical creation, essay by Henri Poincare 1948 Aug p 54-5	I haveflause of the second
mathematical invention, creativity, set theory, analytic geometry, Fermat's last theorem, innovation in mathematics 1958 Sept. p. 66–73	mathematics 1956 Dec p 162-166
last theorem, innovation in mathematics 1958 Sept p 66-73	
mathematical logic, antinomy, paradox, logic, barber paradox, undecidable questions, Godel's proof, Grelling's paradox,	the mathematical collective self-styled Bourbaki 1957 May p 88-99
Enimenides' paradox, Zeno's perodox, Orening's paradox,	prime number, science history, sieve of Eratosthenes, mathematical
Epimenides' paradox, Zeno's paradox, paradox and foundations of logic	sieves and their uses 1958 Dec p 105-112
games theory, paradox, decision theory, 'metalogic' to solve paradox	Descartes, biography 1959 Oct p 160-173
Godel's proof matelone and add the series 1967 July p 50–56	
Godel's proof, metalogic, undecidable questions 1971 Mar. p 50-60	
formalism, infinitesimals, Platonism, real-number line	applied mathematics, introduction to single-topic issue on mathematics
1971 Aug p 92–99	1964 Sept p 40-49
calculus, Euclidean geometry, falling-stone problem, infinitesimals,	number theory, negative numbers, irrational numbers, complex
method of exhaustion, nonstandard analysis 1972 June p 78-86	numbers, matrix 1964 Sept p 50-59
mathematical model, linear programming, decision theory	geometry, topology, non-Euclidian geometry, conic sections, history
physics physical models are truth and all p 21–23	and current uses of geometry 1964 Sept p 60-69
physics, physical models, creativity, innovation in physics	algebra, science history, matrix, vector 1964 Sept p 70-78
geology, tectonic processes, scaling, block fault, geosyncline,	probability, combinatorial analysis, normal curve, Brownian motion
	Markov chain, Pascal's triangle, statistics, probability theory 1964 Sept p 92-108
experimental geology 1961 Feb p 96–106 vehicular traffic flow, urban transport, traffic theory, modeling auto	1904 Sept p 72 to
flow patterns 1963 Dec p 35–43	physical sciences, group theory, 'eightfold way', field theory, S matrix theory, mathematics in physics 1964 Sept p 128-146
Monte Carlo method, gas kinetics, computer modeling, chemistry by	theory, mathematics in physics 1964 Sept p 128-140 biological sciences, self-reproducing machine, nerve impulse,
computer 1964 July p 100–108	predation, Turing machine, automata theory, mathematics in biology
economics, social sciences, decision theory, mathematics in economics	1964 Sept p 148-164
and other social sciences 1964 Sept p 168–182	control theory, cybernetics computer programming feedback,
	to all out
computer modeling, glant molecules, cytochrome helix, myoglobin.	frequency response, stability, dynamic programming policy
computer modeling, giant molecules, cytochrome helix, myoglobin,	frequency response, stability, dynamic programming 'policy' concept 1964 Sept p 186-200
' 'ng, DNA 1966 June p 42-52 [1043]	concept 1964 Sept p 180-200 arithmetic computer history computer's contribution to mathematics
³ ng, DNA 1966 June p 42–52 [1043]	concept 1964 Sept p 180-200 arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216
' 'ng, DNA 1966 June p 42–52 [1043] ca phenomena, topology	concept 1964 Sept p 186-200 arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction
ra, DNA 1966 June p 42–52 [1043] ca phenomena, topology 1976 Apr p 65–83	concept 1964 Sept p 186-2w arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110
rag, DNA 1966 June p 42-52 [1043] ca phenomena, topology 1976 Apr p 65-83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82-93 mathematical philosophy, mathematical proof, foundations of	concept 1964 Sept p 186-200 arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus everted sphere proof
ca phenomena, topology 1976 Apr p 65-83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82-93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127	concept 1964 Sept p 186-200 arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120
ca phenomena, topology 1976 Apr p 65-83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82-93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127 mathematical proof, probability, law of large numbers, gambler's fallacy,	concept 1964 Sept p 186-200 arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non-
ca phenomena, topology 1976 Apr p 65-83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 Apr p 65-83 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44-47	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non-Euclidian geometry, axiom of choice 1967 Dec p 104-116
ca phenomena, topology 1976 Apr p 65-83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 Apr p 65-83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82-93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44-47 probability, statistics, fundamental reasoning, fundamental research,	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non-Euclidian geometry, axiom of choice 1967 Dec p 104-116
ca phenomena, topology 1976 Apr p 65–83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non-Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography
ca phenomena, topology 1976 Apr p 65–83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46
ca phenomena, topology 1976 Apr p 65-83 area-minimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82-93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44-47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128-138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112-127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queuès, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chiefe remainder theory, computability theory Diophantine
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77	anthmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine
ca phenomena, topology 1976 Apr p 65-83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 Apr p 65-83 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112-127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44-47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128-138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112-127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63-77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47-52	arithmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Nos p 84-91 arms-race soothsaying 1951 Dec p 35
ca phenomena, topology 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 Apr p 65–83 area-munimizing principle, measure theory, mathematical surfaces, soap bubbles, surface geometry 1976 July p 82–93 mathematical philosophy, mathematical proof, foundations of mathematics, set theory 1964 Sept p 112–127 mathematical proof, probability, law of large numbers, gambler's fallacy, random walk, philosophy of science 1950 Oct p 44–47 probability, statistics, fundamental reasoning, fundamental research, What is probability? 1953 Sept p 128–138 foundations of mathematics, mathematical philosophy, set theory 1964 Sept p 112–127 grammar, truth, logic, philosophy, sentence, metalogic, antimony of the liar, proof and truth 1969 June p 63–77 incompleteness theory, algorithms, random numbers, algorithmic definition of randomness 1975 May p 47–52 four-color-map problem, foundations of mathematics, proof by	anthmetic, computer history, computer's contribution to mathematics 1964 Sept p 202-216 fixed point theorems, topology, surface deformation, contraction 1966 Jan p 105-110 topology, sphere, differential topology, torus, everted sphere proof 1966 May p 112-120 set theory, non-Cantorian sets, Russell's paradox, Cantor, non- Euclidian geometry, axiom of choice 1967 Dec p 104-116 philosophy, Leibnitz, calculus, symbolic logic, calculating machine, Leibnitz, biography 1968 May p 94-100 queues, traffic, operations research, computer time sharing applications of queuing theory 1968 Aug p 96-103 symbolic logic, Dodgson, barber paradox, paradox 1972 July p 38-46 Chinese remainder theory, computability theory, Diophantine equations, Hilbert program 1973 Not p 84-91 arms-race soothsaying set theory or 'modal logics' 1967 Apr p 52
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quantum jumps, corpuscular streams, what is matter?		1950 May p 42-4.
1953 Sept p 52–57 [241]	mechanical calculators, abacus, calculating machin	
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	typesetting, digital computer, cathode-ray tub	
atoms, elementary particles, electron, neutron, proton, structure of 'ordinary matter' 1967 May p 126-134	applications	1969 May p 60-69
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biography 1958 Mar p 94–102	pressurized-contactless bearings	1966 Mar p 60–71
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sunspots, dendrochronology 1977 May p 80–92 [925]	harvester, hay cuber, cherry picker, grain com	
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Pierre-Louis Moreau de Maupertuis 1955 Oct p 100–110	mechanical heart, see artificial heart	1301 1145 p 30 3.
mauveine, dye, science history, coal-tar chemistry, 'Perkin reaction',	mechanics, Newton, calculus, optics, life and work	of Isaac Newton
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Maxwell's color photograph, color photography, science history, first	mechanization, productivity, capital cost, labor cos	
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1952 Aug p 43–51	median, statistics, mode, sampling, sequential samp	oling
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1955 June p 58–71	medical consumers with the second	1973 Sept p 169-175
Maxwell's poetry, light verse by James Clerk Maxwell 1952 Mar p 62-63	medical care, community hospital, medical center,	general practitioner,
Maya cermonial center, New World archeology, stelae cult, British	medical specialist, laboratory services, Bingha of medical technology	
Honduras, Lubaantun, Pusilha sites 1972 May p 82–91	national health insurance, group practice	1948 Oct p 7-13
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1959 Mar p 100-113	medical economics, public funds, municipal hosp	ntals voluntary
Cozumel sites 1975 Oct p 72–82	hospitals, proprietary hospitals, metropolitan	medical economics in
New World archeology 1977 Mar p 116–133	New York City	1965 Jan n 19-77
May a inscriptions, progress report on decipherment 1978 May p 92	public health, morbidity, health statistics, mortal	hty rates, health
maze running, planarian, learning, conditioned behavior,	insurance, U.S. National Health Survey	1966 June n 21-29
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1963 Feb p 54-62	Kauser health plan, H M O, screening out the	'worned well'
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Committee on Loyalty and Security, report on Signal Corps Engineering Laboratory 1954 June p 29-31	birth control, human population, India, infant m	ortality, family
Engineering Laboratory 1954 June p 29-31 meanders, Mississippi river, alluvial valley, deltas, floods	planning, experience in an Indian village	
1951 Apr p 18-23	health statistics, medical and control and	July p 106-114 [1184]
nverbed, sine-generated curve, hydraulies, least-work path for nver	health statistics, medical-cost control, national h 'uncontrollable' expenditures, U S Federal ex	ealth insurance,
1966 June p. 60–70 [869]	care	penditure on medical
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in heterologous graft	1948 Dec p 40-43	pharmacology, psychiatry, research in pain supp	ression
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15	161 Aug p 99~101	medical researches, blindness, neonatal disorder, med	lical ethics
thermography, tumor, arthritis, skin temperature, cir	culatory disorders	premature infants retrolental fibroplasia, 'blind'	ne p 100-107 [1361]
	967 Feb p 94–102	medical specialist, medical care, community hospital	medical center
ultrasonics, optics, echo-sounding, computer-assisted imaging internal organs by ultrasound 1978 Ma	v n. 98112 [1389]	general practitioner, laboratory services, Binghan	n nian organization
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nedicine, anthropology, magic, alkaloids, psychoactive drugs, hypnosis	membrane permeability, cell membrane, intercellular communication,
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Ambroise Pare 1956 Jan p 90–96	'anomalous' water, 'biological' water, blood, hemoglobin, water,
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to single-topic issue on medical care 1973 Sept p 22-33	active transport 1972 Feb p 30–38 [1241]
arteries, atherosclerosis, coronary disease, thrombus, monoclonal	membrane potential, kidney tubule, sodium pump, active transport, cell membrane, biological pumps 1962 Aug. p 100–108
hypothesis, plaque formation 1977 Feb p 74-85 [1351]	membrane, biological pumps 1962 Aug. p 100–108 bioluminescence, plant cell, calcium pump, ion potential, electricity in
medieval archeology, Scotland, St. Ninian's Isle, silver artifacts, the treasure of St. Ninian's 1960 Nov. p. 154-166	plants 1962 Oct p 107–117 [136]
medieval life, English medieval village, Wharram Percy site	ners e conduction, synapse, reflex arc, motor neuron, inhibitory
1976 Oct. p 116–128	impulse, transmitter molecules, nerve excitation, activity at the
medieval technology, science history, technological innovation, windmills,	neural synapse 1965 Jan p 56-66 [1001]
pumps, blast furnace, bellows, medieval uses of the air	axon, neurology, nerve conduction, Schwann cell, axoplasm, perfusion
1970 Aug p 92–100 [336]	technique, cell perfusion, structure of axonal tube, physiology of
Mediterranean Sea, Black Sea, Tethys Sea, sea level, geological history of	neural transmission, concentration gradients
Black Sea 1978 May p 52–63 [932]	1966 Mar p 74-82 [1038] membrane proteins, cell membrane, membrane lipids, membrane
Mediterranean wines, viticulture, wine varieties, temperate-climate wines 1974 June p 106-115 [1298]	permeability, phospholipids, active transport
medulia, central nervous system, reticular formation, brain, perception,	1972 Feb p 30–38 [1241]
motor reflex, neurophysiology, attention and orienting mechanism in	cell membrane, lipid molecules, membrane structure, active transport
brain 1957 May p 54-60 [66]	1974 Mar p 26–33 [1292]
megalopolis, Great Lakes region 1966 Oct p 46	membrane structure, cell membrane, lipid molecules, membrane proteins,
megnetohydrodynamics, stellar magnetic fields, cosmic radiation, radio	active transport 1974 Mar p 26–33 [1292] membrane technology, artificial gill 1964 Nov p 59
emissions, electrical induction, electricity in space 1952 May p 26-29	memory, brain, learning, cerebral cortex, fundamental research, What is
meiosis, mutotic apparatus, cytology, chromosome, mutosis, mechanism of	memory? 1953 Sept p 118-126 [11]
cell division 1961 Sept p 100–120 [93]	information processing, learning theory, reason, rational association as
Down's syndrome, chromosomal anomalies, Klinefelter's syndrome.	aid to memory 1956 Aug p 42–46 [419]
trisomy 21, genetic defect, mitosis, gene translocation,	evolution, intelligence, learning, language, imagery, experimental psychology, learning in man and animals 1957 June p 140–150
nondisjunction, afflictions associated with abnormal chromosome complement 1961 Nov p 66-76 [150]	psychology, learning in man and animals 1957 June p 140-150 education, learning, experimental psychology, 'drill' in learning
tissue culture, mitosis, plant cell differentiation, clone, generation of	1958 Aug p 68-72 [422]
whole organism from tissue cell (carrot) 1963 Oct p 104-113	glial cells, learning theory, neurones, RNA, brain, molecular theory of
embryonic development, oocytogenesis, mitosis, mammalian eggs.	memory 1961 Dec p 62–70 [134]
chromosomal anomalies, ovum, in vitro fertilization 1966 Aug p 72–81 [1047]	learning, forgetting, proactive and retroactive interference
mitosis, ovum, fertilization, embry onic development, blastocyst, human	1964 Mar p 91-99 [482] visual search, visual scanning, information processing, reading, pattern
embryos in the laboratory 1970 Dec p 44-54 [1206]	recognition 1964 June p 94–102 [486]
Meissner effect, superconductors, quantum mechanics, magnetic field,	digit recall, short-term memory, long-term memory, tachistoscope
magnetic impermeability, quantized vortexes, quantum effects in	1966 July p 90–95 [499]
superconductors 1965 Oct. p 57-67 Mekong river, economic development, irrigation monsoons, floods.	brain metabolism, protein synthesis, goldfish, learning, conditioned behavior 1967 June p 115-122 [1077]
hydro-engineering, rice, Mekong river plan, United Nations	holography, learning, brain function, interference patterns, monkey
1963 Apr p 49-59	brain, holographic model, neurophysiology of remembering
melanin, hormone, skin color, pigmentation, melanocytes, melatonin	1969 Jan n 73-86 15201
1961 July p 98–108	amorphous semiconductors, switching, glass, threshold switch, memory
melanism, evolution, speciation, guillemot, skua, ornithology, avian evolution 1957 May p 124-134	switch 1969 Nov p 30-41 image processing, perception, linguistic material, visual memory,
camouflage, evolution, moths, speciation, air pollution, population	remembering what is seen 1970 May p 104-112 [528]
genetics, mutation genetic variation, evolution observed	aplysia, neurones, behavior, learning, synapse, heterosynaptic
1959 Mar p 48-53 [842]	facilitation, memory and learning at nerve-cell level
air pollution, evolution, moths, gene mutation, population genetics, predation, evolution observed again 1975 Jan p 90-99 [1314]	information retrieval learning [1970 July p 57-70 [1182]
melanocytes, hormone, skin color, pigmentation, melanin, melatonin	information retrieval, learning, long-term memory, short-term memory
1961 July p. 98–108	1971 Aug. p 82-90 [538] brain development, environmental stimuli, learning, rats, sensory
cancer, ultraviolet radiation, suntanning, epidermis, skin, vitamin D	deprivation 1972 Feb n 22-20 (541)
1968 July p 38-46 melatonin, hormone, skin color, pigmentation, melanin, melanocytes	crime, eye-witness testimony, perception jury trial
201-29 - 101 1301	calculating machine computer peel of all the p 23–31 [562]
adrenal gland, pineal organ, biological clock estrogens, progesterone	calculating machine, computer, pocket calculator, integrated circuits
veroloning princial regulation of sex alander 1045 tt. = 50 40 110 15)	1976 Mar p 88-98 brain organization, hippocampal system, rats, spatial memory
membrane, cytology, energy transformation, ATP, mitochondrion citricard cycle, glycolysis oxidative phosphorylation, energy	1077 1 02 02
11.4 10.0 1 11.4 10.0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	site of short term — 1961 Dec p 76
bacterial cell, cell wall, bacterial metabolism, pensalti-	hischemical basis? 1965 Feb p 52
DOINGLEITHIGE ENCODEDINGS	memory circuits, integrated circuits computer, 'Simple Simon' a minimal
see also cell membrane artificial membranes and the like	computer 1950 Not p 40-43

menarche, adolescence, child development, growth, earlier maturation of	Merton rule, falling-body velocity, free fall, Galileo, science history
children in industrial countries 1968 Jan p 21–27 abortion, population, marriage rate, death rate, birth rate, vital	1973 May p 84-92 mesentery, capillary bed, blood circulation, arteriole, venule,
statistics, infant mortality, 1538-1812, parish registers, York,	cardiovascular system 1959 Jan p 54-60
England 1970 Jan p 105–112	mesoderm, cell differentiation, embryonic development, blastula,
adolescence, child development, medical care, growth hormone, 'bone	gastrula, fertilization, ectoderm, endoderm, embryological
age', heredity vs environment 1973 Sept p 34-43	'organizer', science history, review of classical embryology
adolescent development, bespeaks health rather than habits	1957 Nov p 79-88 [103]
1972 May p 50	embryonic development, heart embryology, first heartbeat 1959 Mar p 87-96 [56
hastened by social stimulation? 1972 June p 53 Mendelees, deflater of psychic research 1978 June p 88	cell differentiation, embryonic development, pancreas, endoderm
mendelevium, californium, table of elements, einsteinium, fermium,	tissue culture 1969 Mar p 36-44 [1136
'synthetic' elements transuranium elements, radioactive decay,	Mesalithic era, cultural anthropology, Ishango man, harpoon, African
periodic table at 101 1956 Dec p 66-80 [243]	culture 10 000 B C 1962 June p 195-11
Mendelian inheritance, neurospora, mutation, natural selection, gene	mesons, elementary particles, electron, proton, particle counters, neutron
expression, genetic disease, tryptophan-macin relation, one gene-one	positron, photon, neutrino, particle accelerator, nuclear binding force 'Meson Song' 1948 June p 26-3
enzyme hypothesis, selection for defect 1948 Sept p 30-39 [1]	high energy physics v-particles fermion boson the multiplicity of
Mendel's laws, chromosome mapping, mutation, science history, the gene on the eve of the resolution of the genetic code	particles 1932 Jan y 22-2
1956 Oct p 78–90 [17]	electromagnetic force, nuclear forces, proton, neutron particle
Mendel's papers, widely circulated 1968 July p 55	scattering, high-energy physics, fundamental research what holds
Mendocino escarpment, ocean floor, Pacific Ocean, fracture zones,	the nucleus together?
seamounts, Earth mantle convection 1955 July p 36-41	strong interactions, nuclear binding force, particle physics, fleeting associations of mesons and atomic nuclei 1956 Oct p 93–102 [207
menstrual cycle, progesterone, pregnancy, uterine muscle, hormone,	
hormone inhibition of uterine muscle contraction 1958 Apr p 40-46 [163]	quantum of the strong force 1997 sam P
mental health, Hutterites, psychosis, standard expectancy method,	tech assess whereas harmons 'strong' force 'eightfold way,
enidemiology 1953 Dec p 31–37 (440)	conservation laws, Regge trajectory, resonance particles, 74-93 [296
emotional illness, schizophrenia, epidemiology, family, psychosis,	hypothesis particle accelerator, pions, proton, quark, high-energy physics,
income status 1954 Mar p 38-42 [441]	
alkaloids, hallucinogens, drug addiction, consciousness alteration,	(301 Dec F
LSD, psychosis, psilocybin, mescaline, effects of LSD 1964 Apr p 29-37 [483]	baryons, high-energy physics, hadrons, leptons, quantum numbers
community mental-health centers, emotional illness, psychiatric	quark confinement, bag model, littlated stately 11976 Nov p 48-6
hospital nonulation, psychoactive drugs, psychotherapy, psychiatry,	1948 Dec p 2
psychoanalysis 1973 Sept p 110-127	
Federal program 1948 Sept p 28 1954 Mar p 48	nuclear structure
diagnosis by art	1970 Aug F
Ford funds research mental illness, see emotional illness	mesopause, upper atmosphere, cloud, meteoritic dust, condensation nuclei, rocket-borne collectors sample noctilucent clouds
mental retardation, socioeconomic factors 1938 Wai p 00	
phenylketonuria test	Mesopotamia, transportation, wheeled vehicles, oxen, carts, wagons,
	Transcaucasus, origin of wheeled transport 51068 July p 82-9
environmental deprivation from age 1 to 5	to a sering of syriting in clay
The same satisfies a selection of the selection of the selection agreement the selection of	hieroglyphs writing, pictograph, ideographs, origin of writing, pictograph, ideographs, origin of writing 50-59 [700] tokens
	Macanatagian culture, ancient trade, archeology, writing Elamite
the property of the order of the street of t	culture, Persia, Sumer, Iran, Tepe Yahya 1971 June p 102-111 [66]
artificial satellite, orbital motion, space exploration, 1961 Jan p 49-57	
abiation, re-chiry contract, motion, radar astronomy, delay-Doppler	
Wante Microwaves	mesquite, desert ecology, Joshua trees, creosote bushes 1955 Apr p 68-75 [114
planete solar system, craters, Mariner to mission	media, television
Venus, planetary temperature and motion 1965 June p 58	message systems, communication mass-communication media, television violence, cultural patterns, sociology, mass communications as social violence, cultural patterns, sociology, mass communication as social violence, cultural vio
rotation detected by laudi	violence, cultural patterns, bottomes, 1072 Sept. p. 152-160 1077
report from findings by Manner 10 mission 1974 Mar p 44 radar reveals cratered topography 1974 May p 59	environment and a state of the donamine, endocrine
Mariner 10 mission report 1974 Sent n 68	system, nervous system, neurottational and accompling
Mariner 10 report	Parkinson's disease, 'second messengers' brain endocrinology 1977 Aug p 108-119 [1368
mercury 198, standard of length, interferometry, 1948 Aug p 48-53	The state of the s
mercury cycle, mercury poisoning, mercury pollution, Minamata disease [1971] May p 15-21 [1221]	messenger ribonucleic acid, see interval metabolic disease, heredity, porphyria genetic disease George III 1969 July p 38-46 [1149]
mercury cycles are 1 [1971 May p 13-21 [1221]	and read way marine
mercury delay line, computer memory, ferroelectric crystal memory, mercury delay line, computer memory, ferroelectric crystal memory, 1955 June p 92-100	metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax, copepod lipids coral rect wax metabolic fuel, biological wax
ferrite cores, magnetic tape, magnetic tape, magnetic maser.	wax, food chain metabolic hormones, p
mercury mirror, atomic clock, ammonia maser, cestuit clock, and the province of the province o	growth hormone ' 1951 (ACL b to 27
mercury poisoning, mercury cycle, march 1071 May p 15-21 [1221]	constructed communication
1949 Dec D 20	metabolic information, cell communication general code of the server impulse, hormonal action 1972 Sept. p. 42–51 [1257] nerve impulse, hormonal action podit temperature animal
from fingerprint dust mercury polisoning, Minamata disease mercury pollution, mercury cycle, mercury polsoning, May pt 15-21 [1221]	metabolic rate, hibernation thermoregulation body 1950 Dec. p. 18-21
	behavior a tendence acclimatization deer
mercury uptake in foodchain	brown fat, altitude adaptation. Queenua inutation of the altitude mice, hemoglobin exercise, human physiology at high altitude 1970 Feb. p. 52. 62 [1168]
mercury uptake in foodchain mermaid's wineglass, Acetabularia, giant cells, cell nucleus, cytoplasm mermaid's wineglass, Acetabularia, giant cells, cell nucleus, cytoplasm aleae, giant cells in study of nucleus-cytoplasm interaction	1970 ren p 32 02 (1100)
alease giant cells in study of nucleus-cytopiasm increase 118-124 [1057]	

etabolism, alcoholism, drunkeness, physiological individuality	metal ions, chelation, sequestering, ring compounds, porphyrin ring, organometallic compounds, metal-poisoning antidote, chemical
conditions effect of alcohol 1948 Dec p 50-53 biochemistry, enzymes, virus, citric-acid cycle, co-enzymes, sulfa drugs,	separation 1953 June p 68–76
antibiotics, science, biochemistry 1900-1950 1950 Sept p 62-68	metal ores, Earth crust, mining, natural resources, natural concentration
hummingbird, body temperature, thermoregulation, hibernation,	of metals 1960 June p 146-154
surface-to-volume ratio 1953 Jan p 69–72	metal-oxide semiconductors, computer memory, integrated circuits,
teeth, enamel, dentin, fluoridation 1953 June p 38-42	microelectronics, large-scale integrated circuits, logic circuits,
alcohol tolerance, drug abuse, liver function, acetaldehyde	transistor 1970 Feb p 22–31
1953 Dec p 86–90	integrated circuits, microelectronics, silicon 'chips', transistor
shrews, body temperature, thermoregulation, surface-to-volume ratio	1973 Aug p 48–57
1954 Aug. p 66–70	integrated circuits, microcomputers, microelectronics, microprocessors,
oxygen starvation, erythrocyte, acclimatization, attitude adaptation	minicomputers, silicon 'chips' 1975 May p 32–40
1955 Dec p 58–68	integrated circuits, logic gates, microelectronics, semiconductor technology, transistor 1977 Sept p 70-81 [375]
cell organelle, mitochondria, enzymes, cell metabolism, cell membrane, 'powerhouse of the cell' 1957 July p 131–140 [36]	metal poisoning, chelation, hemochromatosis, lead poisoning,
'powerhouse of the cell' 1957 July p 131–140 [36] ruminants, symbiosis, cellulose digestion, anaerobic metabolism,	pharmacology, drug action, Wilson's disease, heavy metal poisoning
fermentation, how cows digest grass 1958 Feb p 34–38	bone cancer, salicylates, aspirin, cancer therapy, chemotherapy,
hibernation, hypothermia, surgery, shock, body temperature, artificial	medical exploitation of chelates 1966 May p 40-50
lowering of body temperature for surgery and shock	metal-poisoning antidote, chelation, metal ions, sequestering, ring
1958 Mar p 104-114	compounds, porphyrin ring, organometallic compounds, chemical
arthritis, gout, colchicine, chemistry of gout 1958 June p 73-81	separation 1953 June p 68–76
adipose tissue, hibernation, brown fat, thermoregulation, homeostasis,	metal-powder alloying, alloying, mechanical alloying, metallurgy
cold adaptation, neonatal physiology, heat production in newborn	1976 May p 40–48
animals, including man 1965 Aug p 62–65 [1018]	metal prospecting, moss leads to copper 1955 Oct p 52 metal refining, by chemistry 1952 June p 32
salmon, fish migration, swimming, laboratory observation of energy production by salmon 1965 Aug p 80-85 [1019]	metal stamping, circle grid analysis, crystal structure, sheet-metal
circulatory system, thermoregulation, cold adaptation, fur, insulation	production, strain hardening, metal structure 1976 Nov p 100–108
1966 Jan p 94–101 [1032]	metal-surface defects, exoelectrons, Geiger counter, metal fatigue, wear
bird flight, energy output, wind tunnel experiments, gull, budgerigar	1977 Jan p 74-82 [350]
1969 May p 70–78 [1141]	metal 'whiskers', surface defects, crystal growth, lattice defects, growth of
calcitonin, thyroid, calcium metabolism, bone, human physiology,	metal whiskers 1960 July p 64–72
hormone, recognition and characterization of calcitonin	dislocation-free metals 1958 Oct p 56
1970 Oct p 42–50	metal with memory, Nitinol 1971 Mar p 47 metallic bonds, solid state physics, crystal structure, X-ray diffraction,
diet, fasting, human nutrition, starvation, kwashiorkor, marasmus, physiology of starvation 1971 Oct p 14–21 [1232]	ionic bonds, covalent bonds, molecular bonds, energy levels, the
physiology of starvation 1971 Oct p 14-21 [1232] animal behavior, cryptobiotic animals, anaerobic metabolism,	nature of solids 1952 Dec p 39–49 [249]
suspended animation, Nematoda, Rotifera, Tardigrada	metalliding, corrosion tunnel, stress-corrosion failure, crystal structure,
1971 Dec p 30-36	dislocations 1966 Feb p 72-81
'cold-blooded' animals, ectothermy, heterothermy, insect flight, sphinx	materials technology, superplasticity, microduplex structure,
moths, temperature regulation, Mandura sexta warm-up mechanisms	thermomechanical processing, grain structure metals that can be
1972 June p 70–77 [1252]	formed like plastics 1969 Mar p 28–35
birds, dinosaurs, ectothermy, endothermy, birds descended from dinosaurs 1975 Apr p 58-78 [916]	alloys, materials technology, diffusion, surface alloy, molten fluoride, electrolysis 1969 Aug p. 38-46
dinosaurs 1975 Apr p 58–78 [916] sports, footracing, human physiology, athletics, psychology, running	electrolysis 1969 Aug p 38-46 metallo-enzymes, elements, living matter, essential elements, fluorine,
records, Aesop principle 1976 June p 109–119	silicon, tin, vanadium, list of elements essential to life lengthened to
amino-acid deficiencies, dietary requirements, human nutrition, food	24 1972 July p 52–60
and agriculture 1976 Sept p 50-64	metallo-organic process, ammonia manufacture, biological nitrogen
Krebs cycle 1957 July p 66	fixation, Haber process, nitrogen fixation 1974 Oct p 64-70
alcohol produced internally 1973 Sept p 66	metalloid element, boron, crystal structure, borane fuels, properties and
see also cell metabolism, aerobic metabolism and the like	applications of boron compounds 1964 Jan p 88-97 metalloiding, surface-alloying by diffusion 1967 Sept. p 106
thyroid in governing metabolism 1960 Mar p 119–129	metalloiding, surface-alloying by diffusion 1967 Sept p 106 metalloids, prediction of alloy properties 1964 Aug p 40
metabolism of drugs, alcohol metabolism, detoxification, drug	metallurgical engineering, steel production, continuous casting, economic
inactivation, enzyme, liver function, cirrhosis	advantages 1963 Dec p 74-88
1975 June p 22-31 [1322]	splat cooling 1960 Aug p 72
metabolism of mammals, algae deuterium, reaction kinetics, penicilin	electroshaping metals 1961 Jap n 84
mold, heavy water biology 1960 July p 106-116	metallurgy, titanium, ilmenite, properties and applications of titanium
metabolite antagonists, imitative drugs, sulfa drugs, folic acid, para- aminobenzoic acid 1951 Apr p 60-63	air pollution, catalysis combustibility, fly ash, dust storms, fine
metal artifacts, Turkey, metallurgy, copper, Neolithic archeology, village	particles 1950 Dec p 50-53
farming communities man's first use of metals 7,500 B C	crystal structure, zone melting, vacuum furnace, pure metals
1970 Mar p 50-56	1954 July p 36–40
metal casting, alloys, crystal structure, dendrites, metallurgy,	Etruscans bronze 1955 Nov. p. 00. 08
solidification of metal 1974 Dec p 88-95 metal consumption, economic development, technology transfer,	crystal structure, diffusion, wandering of atoms in crystal lattice
industrialization mineral resources, natural resources and	crystal structure stress feature was 1957 May p 103-110
technological substitution 1963 Sept. p. 128–136	crystal structure, stress fracture, materials technology, cracks and fracture
metal cutting, chemical milling, etching, operation of chemical mill	New World archeology, New World archeology, Old Copper culture
1957 Inn n 104_112	reid, copper, gold lost-wax casting, metalwork, pre Columbian
metal fatigue, Beilby layer, ferrograph analysis friction, lubrication, machine wear, particles of wear, wear 1974 May p 88-97	New World, 4 000 B C. 1066 A == - 72 Gr
exoelectrons Geiger counter, metal surface defects wear	and structure, controlled eutectics, whiskers,
1077 1 74 93 (350)	Controlled-cooling magnets
metal forming, electrochemical machining, electrolysis	metal artifacts, Turkey, copper, Neolithic archeology, village farming communities, man's first use of metals 7,500 B C
1074 1 20 27	1070.14
crystal structure dislocations forging, strain hardening, creep in metals	crystal energetics crystal structure, conduction electrons quantum
1975 Apr p 116–125	mechanics quasi particle concept, Fermi surface metal properties
	1973 Jan p 88_98
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alloys, crystal structure, dendrites, metal casting, solidification of metal	rolar custom and disciplination
alloying, mechanical alloying, metal-powder alloying	1060 Nov. p. 171 192 1931
1076 \ 100 -	coesite, astroblemes, shatter cones, cratering, fossil Earth-catastrophes
1977 Oct. p. 122 123 120 120 120 120 120 120 120 120 120 120	shock waves, exploding wire, streak photography, generation of shock
1956 Jan. p. 50	waves by exploding wire 1962 May p. 102-112 extraterrestrial life, chondrites, pangenesis, organic molecules, organic
soldering technic 1956 Apr. p. 64 metalogic, grammar, truth, logic, philosophy, sentence, mathematical	molecules in carbonaceous chondrites 1963 Mar. n. 43-49
proof, antimony of the ligr, proof and trith 1960 June 7 62 77	Earth, tektites, moon, moon as source of tektites 1964 Feb. p. 50-57
Godel's proof, mathematical logic, undecidable questions	asteroids, Icarus, orbital motion 1965 Apr. p. 106-115 lunar luminescence, moon, solar radiation, Kepler crater, solar flares,
1971 Mar. p. 50-60 metals, crystal structure, field-emission microscope, pictures of atoms	impact of solar protons? 1965 May p. 28-37
1957 June n. 112, 122	diamond, Canyon Diablo meteorite, iron-nickel phases, shock hypothesis, asteroids, origin of meteorites 1965 Oct. p. 26-36
crystal structure, materials technology, aligned crystals, alignment of crystals for control of mechanical and magnetic properties	comet, geomagnetism, magnetic reversals, tektites, meteoritic impacts
1959 Apr n 125_141	1967 July p 32-38 Apollo project, moon, lunar soil, regolith, structure and history of
ionizing radiation, crystal structure, solid state physics, displacement of	moon 1970 Aug. p. 14-23
crystal structure by radiation 1959 Sept. p. 200-213 crystal structure, Fermi surface, gross properties explained as quantum	albedo, asteroids, planetisimal collisions, solar system formation,
effects 1963 July n. 110–120	primordial dust cloud 1975 Jan. p. 24-33 carbonaceous chondrites, chondrites, solar system, primordial dust
crystal structure, whiskers, fiber-reinforced, dislocations, matrix,	cloud 1975 Feb. p. 30-38
composite materials, two-phase materials 1965 Feb. p. 28-37 glass, materials technology, ceramics, polymers, chemical band,	potassium-argon dating 1960 Feb. p 72
composite materials, atom, elements, introduction to single-topic	Tungus forest 1961 Jan. p. 80 Earth satellite(?) 1965 Nov. p. 50
issue on materials 1967 Sept. p. 68-79	fall on English town 1966 Sept. p. 109
crystal structure, solid-state electronics, X-ray crystallography, semiconductor, nonmetals, materials technology, amorphous solid,	Allende meteorite, meteorite analysis 1971 Aug. p. 46
electrical conductivity 1967 Sept. p. 80–89	grazing, pyrotechnic encounter 1974 Aug. p. 50 crater in France 1977 Nov. p. 75
alloys, materials technology, crystal structure, grain boundaries, lattice	meteoritic amino acids, carbonaceous chondrites, chemical evolution,
defects, dislocations, electron 'gas', nature of metals	meteoritic hydrocarbons, Oparin-Haldane hypothesis 1972 June p. 38-46 [902]
1967 Sept. p. 90-100 input-output analysis, interchangeability of materials, cost assessment,	meteoritic dust, meteorites, solar system evolution, ocean sediments,
price trends, materials technology, plastics, competition among	'cosmic spherules' in ocean sediments 1960 Feb. p. 123-132
materials 1967 Sept. p. 254-266 crystal structure, X-ray diffraction, liquid state, physics of metals in the	upper atmosphere, cloud, mesopause, condensation nuclei, rocket- borne collectors sample noctifucent clouds 1963 June p. 50-59
liquid state 1969 July p. 72–82	borne collectors sample noctifucent clouds 1963 June p. 30-37 meteoritic hydrocarbons, carbonaceous chondrites, chemical evolution,
plate tectonics, sea-floor spreading, mid-ocean ridge, hydrothermal	meteoritic amino acids. Onarin-Haldane hynothesis
extraction, manganese nodules, origin of metal deposits on ocean floor 1978 Feb. p. 54-61 [929]	1972 June p. 38-46 [902] meteoritic impact, fossil crater, Chubb crater, cratering, astroblemes
metamorphosis, autolysis, lysosomes, enzymes, phagocytosis, pinocytosis,	1951 May p. 84-89
cellular digestive organ, 'suicide bag' 1963 May p. 64-72 [156]	tektites, strewn fields, origin of glassy stone 1961 Nov. p. 58-65 [802] meteorological research, U.S. National Institute of Atmospheric Research
amphibian, frog, thyroxin, pituitary gland, hypothalamus, neurosecretory system, hormone, chemistry of amphibian	1938 Apr. p. 2*
metamorphosis 1966 May p. 76-88 [1042]	meteorology, upper atmosphere, stratosphere, ionosphere, radio communication, aurora, noctilucent clouds 1949 Jan. p. 30-39
see also: insect metamorphosis metazoa, Volvox, cell aggregation, between single-celled and multi-celled	andiagonda main gauga anomamatar haramatar hygrameter
organisms 1950 May p. 52–55	in the second section of materials and second section 1961 (Jec. B. 04-70)
meteor, photographed from above 1976 Apr. p. 61	hurricanes, typhoons, radar 1954 June p. 32-37 wind, atmospheric circulation, cyclone, anticyclones, source of
meteorids, asteroids, moons, solar system, planetisimals 1975 Sept. p. 142-159	prevailing winds 1956 Dec. p. 40-40 (641)
meteorite age, fission-track dating, geochronology, glass age, mineral age,	climate, weather, solar wind, ionosphere, coronametry, Earth's weather and solar wind 1957 Apr. p. 138-148 [849]
pottery age, radioactive decay, uranium fission 1976 Dec. p. 114-122	and descript public open from solt particles cloud physics. I all the
meteorite hombardment, cratering, planetary ages, solar system evolution,	seasalt and rain
cratering of four inner planets as key to solar-system history 1977 Jan. p. 84-99 [351]	tornadoes, radar tracking, thermal updraft, weather forecasting 1958 May p. 31-37
meteorite composition, Earth mantle, kimberlites, plate tectonics, seismic	climate, carbon dioxide 'window', air pollution, fossil fuel, threat of 'greenhouse effect' 1959 July p 41-47 [823]
waves plumes Farth dynamics 1975 Mar. p. 50-63 [915]	'greenhouse effect' 1959 July p 41-47 (62-7) artificial satellite, ionosphere, climate, aurora borealis. Van Allen belts,
meteorite craters, cratering, fossil crater, fossil craters in Canadian Shield 1958 July p. 32-39	orbital motion, color particle influence on Earth atmosphere
meteorite fall, observed in Peoples Republic of China 1978 Feb. p. 84	wind, cloud, lee waves, soaring, glider, esthetic exploitation of lee
meteorite fall of 1947 meteorite radioactivity, cosmic radiation, cosmogenic helium, solar meteorite radioactivity, cosmic radiation, cosmogenic helium, solar	waves 1961 Mar p 124-134
guetam evolution enalistion of melectrics 1973 July p. 04-73	Arctic Ocean, ocean circulation, telemetry, Northeast Passage, ice-floe islands, bathymetry, marine biology, Soviet Arctic research
meteorites, moon, cratering, tectonic processes, origin of lunar craters 1949 July p. 20-24	1961 May p 88-102
radio echo, ion cloud, spectroscopy 1951 June p. 22–28	atmospheric circulation, weather, upper atmosphere, solar radiation. balloon and rocket observations 1964 Mar p 62-74
cosmic radiation, helium content, origin of meteorites	agradynamics air pollution microclimate, micrometeorology, fluid
decision and innertive decay solar system. Earth crust, age of solar	dynamics, troposphere, turbulence, atmospheric phenomena near me around 1964 Oct p 62-76
	satellite weather forecasting, weather satellites, Tiros, Essa,
meteoritic dust, solar system evolution, ocean sediments, cosmic meteoritic dust, solar system evolution, ocean sediments, cosmic 1960 Feb. p. 123-132 spherules' in ocean sediments	Applications Technology Satellites, Nimbus 1969 Jan p 52-68 U.S. withdraws Atlantic motherships 1953 Dec p 49
cratering, projectile, impact crater, fluid impact, criter of mass speed	mathematical weather predictions 1957 Sept p 103
impact	artificial generation of winds 1962 Mar p 76

ethadone therapy, turning addicts into taxpayers 1968 Sept p 85	binary arithmetic, Boolean logic, integrated circuits, large-scale
nethod of exhaustion, calculus, Euclidean geometry, falling-stone	integrated circuits, logic elements 1977 Sept p 82–106 [376]
problem, infinitesimals, mathematical logic, nonstandard analysis	charge-coupled devices, digital computer, magnetic bubble memories,
1972 June p 78–86	moving-surface memories, semiconductor memories
netric system, measurement, imperial system, metrication, U K	1977 Sept p 130–145 [378]
metrication program 1970 July p 17-25 [334]	computer technology, microcomputers, microprocessors
measurement, US changeover studied 1970 Oct p 52	1977 Sept p 146–161
measurement, advantages for industry 1972 May p 48	distributed-processing networks, computer technology
netrication, measurement, metric system, imperial system, U K	1977 Sept p 162–177 [380]
metrication program 1970 July p 17-25 [334]	automatic test systems, automatic control, measuring instruments,
measurement, metric system for US 1971 Sept p 76	control systems 1977 Sept p 180–190 [381]
measurement, US metric conversion act 1976 Mar p 60A	communication technology, digital transmission, telecommunication
netropolitan area, housing, urban planning, central city, suburbs, cities,	1977 Sept p 192–209 [382]
conurbation, evolution of the metropolis 1965 Sept p 64-74	computer modeling, municomputers, personal computers, FLEX,
metropolitan region, local government, cities, New York, central city,	LOGO, SMALLTALK 1977 Sept p 230–244 [384]
suburbs, Northeast Corridor, regional planning	microfibrils, collagen, elastın, fibroblasts 1971 June p 44–52 [1225]
1965 Sept p 134–148	microfiche, computer technology, information storage, information
Mexican agriculture, chinampa, canals, drainage, agricultural system,	retneval, microrecording, electronic scanner, library science
Aztec civilization, highly productive farm plots, Aztec empire	1966 Sept p 224–242
1964 July p 90–98 [648]	microfilaments, calcium-ion activator, cell motility, cell shape, embryonic
New World archeology, agricultural revolution, corn, urbanization,	development, microtubules 1971 Oct p 76–82 [1233]
New World agricultural revolution 1964 Nov p 29–37 [625]	microlayer oceanography, carbon dioxide, neuston, marine life, ocean
'green revolution', agronomy, food and agriculture, maize, potatoes	surface, rainwater composition, surfactant 1974 May p 62–77 [913]
1976 Sept p 128–150	micromanipulator, microsurgery, enucleation, cytosurgery
Mexico, Amerindian prehistory, Teotihuacan, Middle America, New	1950 Oct p 48–51
World archeology, pre-Columbian metropolis 1967 June p 38-48	cytosurgery, cell nucleus, on transplanting nuclei 1952 Apr p 58-64
Mexico City, poverty, buying habits, sociology, culture of poverty	micrometeorites, interplanetary space, Mars, Mariner 4, magnetosphere,
1969 Oct p 114–124 [651]	trapped radiation, atmosphere, solar wind, cosmic radiation, space
micro-machining, metals, semiconductors 1956 Apr p 62	exploration 1966 May p 62–72 170n from a comet 1949 Dec p 30
microanalysis, neutron activation, trace elements, radionuclides, decay	and the second s
properties 1967 Apr p 68–82	micrometeorology, aerodynamics, air pollution, microclimate, fluid
microbiology, Hooke, astronomy, science history, life and work of Robert Hooke 1954 Dec p 94-98	dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76
microchemistry, painting, art restoration, X-ray, spectroscopy, science in	phenomena near the ground 1964 Oct p 62-76 microorganisms, bacteriology, PPLO, virus, electron microscopy,
the art museum 1952 July p 22–27	cytology, smallest free-living cells 1962 Mar p 117–126 [1005]
microcircuit fabrication, electron optics, computer-controlled fabrication,	micropaleontology, glaciation, pollen chronology, living records of the ice
silicon 'chips', computer technology, integrated circuits	age 1949 May p 48-51 [834]
1972 Nov p 34-44	forest purifiers ocean floor almost button accorded a second of the seco
	foramınıfera, ocean floor, climate history recorded in ocean sediments
microclimate, aerodynamics, air pollution, micrometeorology, fluid	1962 July p 96–106 [856]
microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric	1962 July p 96–106 [856] microprocessors, integrated circuits, metal-oxide semiconductors.
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microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors,	1962 July p 96–106 [856] microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microcomputers, microelectronics 1977 Sept p 146–161 in automobiles 1975 Aug p 48 price still falling 1976 Sept p 66 micropulsations, Earth core, electromagnetic waves, magnetic field, Earth
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microclimate, aerodynamics, air pollution, micrometeorology, fluid dynamics, troposphere, meteorology, turbulence, atmospheric phenomena near the ground 1964 Oct p 62–76 air pollution, cities, climate, heat emission, heat pollution, infrared photography, heat island, climate of cities 1967 Aug. p 15–23 [1215] cooling towers, heat exchange, industrial cooling, energy technology 1971 May p 70–78 microcomputers, integrated circuits, metal-oxide semiconductors, microelectronics, microprocessors, minicomputers, silicon 'chips' 1975 May p 32–40 computer technology, microprocessors, microelectronics 1977 Sept p 146–161 microduplex structure, materials technology, metalliding, superplasticity, thermomechanical processing, grain structure, metals that can be formed like plastics 1969 Mar p 28–35 microelectronics, integrated circuits electronic components industry, transistor, silicon 'chips' 1965 Nox p 56–70 binary arithmetic, computer technology, integrated circuits, switching	microprocessors, integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, minicomputers, silicon 'chips' 1975 May p 32-40 computer technology, microcomputers, microelectronics 1977 Sept p 146-161 in automobiles
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proposed structure of mitochondrion 1964 Jan p 63~/4	Diogram in donor
ATP, glycolysis, cell membrane, enzymes, oxidative phosphorylation,	Monote project, mantie-diffing site selected
cell metabolism, mitochondrial membrane	
1968 Feb p 32–39 [1101]	
ATP, oxidative phosphorylation, cell membrane, active transport,	Earth mantle, plastic zone, seismology, isostatic equinormal plastic zone at depth between 37 and 155 miles 1959 Oct p 81
chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104-123 [1383]	
mitosis, mitotic apparatus, cytology, chromosome, meiosis, mechanism of	Mohs scale, corundum, crystal structure, cubic boron mitter, cubic
cell division 1961 Sept p 100–120 [93]	nardness, materials technology
Down's syndrome, chromosomal anomalies, Klinefelter's syndrome,	hardness, materials technology Moiré patterns, Fresnel rings, optics without lens, properties and uses 1963 May p 54-63 [299]
tersomy 21 genetic defect, meiosis, gene translocation,	dentation ground squirrels, animal behavior
nondequection, afflictions associated with abnormal chromosome	Mojave desert, behavioral adaptation, general adaptation, desert kidney function, thermoregulation, desert adaptation, desert 1961 Nov p 107-116
1961 1404 h 00~10 (120)	Lidney function, thermoregulation, desert adaptation, desert and arranged from 107-116 mammals' adaptations to heat and arranged arranged desease, milder
tissue culture, meiosis, plant cell differentiation, clone, generation of	maintais adaptations in the dispass million
whole organism from tissue cell (carrol) 1903 Oct P 1971 120	mold, antibiotics, plant disease, rot, blight, smut, witt disease, que p 82-91
embryonic development, oocytogenesis, meiosis, mammanan eggs,	molecular attraction, adhesive, surface tension, elastic energy, epoxy
chromosomal anomalies, ovum, in vitro fertilization 1966 Aug p 72-81 [1047]	resins, molecular repulsion, incroncedants 1967 Apr p 114-120
aging, fibroblasts, cell culture, somatic cells, cell, DNA replication,	and a greet mind
	molecular beam, aerodynamics, supersonic flight, snock waves ward tunnel, ultra-high altitude aerodynamics 1958 Ian p 36-42 tunnel, ultra-high altitude aerodynamics
experiments in aging development, meiosis, blastocyst,	funnel, unitament attitude of the coherent
	electron theory, resonance absorption, atomic radiation, estern Gerlach radiation, gas molecules, nuclear magnetic resonance, Stern Gerlach 1965 May p 58-74
mitotic spindle, cell reproduction, cell memorane, chromosome	experiment the experiment of t
replication, cell life cycle 1974 Jan p 54–64 [1288]	experiment chemical accelerators, ion beam sputtering high energy chemistry 1968 Oct p 44-52
mitotic apparatus, cytology, chromosome, metosis, metosis, m. 100–120 [93]	
cell division cell motility, wound healing, cell tracks, embryonic development,	molecular biology, isotopes, radioautography, cytology, use of 1949 Feb p 30-41
tubulin, cell motion made visible to naked eye	radioisotopes in biological research collaboration, antigen-antibody
	reaction, collaboration of G Beadle and L Pauling 1949 May p 16-21
mitotic spindle, calcium, bone, muscle fiber, calcium and life 1951 June p 60-63	1949 May 1
mitotic spindle, calcium, bone, muscle fiber, early 1951 June p 60–63	blood clotting hemagglutination, fibrinogen thrombin, fibrin role of
sea urching egg, chromosome, digitonin, centrioles 1953 Aug p 53-63	thrombin in converting fibrinogen into fibrin 1962 Mar p bo to thrombin in converting fibrinogen into fibrin 1962 Mar p bo to amino acids, DNA, protein synthesis genetic code, mutation triplets amino acids, DNA, protein synthesis genetic code, mutation triplets
mitosis, cell reproduction, cell memoration, 1974 Jan p 54-64 [1288]	amino acids, DNA, protein synthesis general amino acids, DNA, protein synthesis RNA, anticodon ribosomes triplets, wobble hypothesis 1966 Oct p 55-62 [1052]
life cycle 1952 Dec p 32	RNA, anticodon ribosomes implets, wobble hypothesis 1966 Oct p 55-62 [1052]
isolated intact mixed strategy, games theory, decision theory, minimax, pure strategy, 1955 Feb p 78-83	molecular bonds, radar, microwaves, spectroscopy, coherent radiation
mixed strategy, games theory, decision theory, hammand 1955 Feb p 78–83	resonance absorption, energy to the larger laser
worst-case analysis M'Naghten rule, criminal law, expert witnesses insanity defense, Durham M'Naghten rule, criminal law, expert witnesses insanity defense, Durham 1974 June p 18–23	electrodynamics, time-keeping to an 1948 Sept p 10-23
rule, psychiatrists as witnesses rule, psychiatrists as witnesses mnemonics, Koenigsberg bridges, mathematics, salesman's route, delight mnemonics, Koenigsberg bridges, mathematics, 1961 May p 148-158	technology technology to the differential tonic bonds
mamonics. Koenigsberg bridges, mathematics, 1961 May p. 148-158	solid state physics, crystal structure, X-ray diffraction of solids covalent bonds metallic bonds energy levels the nature of solids 1952 Dec p 39-49 [249]
and depth in mathematical view bottle, irelan know	covalent bonds metallic bonds energy levels die metallic bonds 1952 Dec p 39-49 [249]
Mobius band, topology, inner-tube everteen three-cottages	infrared spectroscopy chemical analysis molecular vibrations 1953 Oct p 42-48 [257]
V conjugation () (1050 100 100 100 100 100 100 100 100 100	mulation plasmids, recombinant DNA
problem Mossbauer effect, relativity theory, atomic clock, resonance absorption. Mossbauer effect, relativity theory, atomic clock atomic clock 72-80 (271)	molecular cloning, gene manipulation plasmids, recombinant DNA Asilomar conference hazard evaluation 1975 July p 24-33 [1324] Asilomar conference hazard evaluation 1975 July p 24-33 [1324]
	Asilomar conference transfer Coulomb technology history
anicleus chemical bond energy levels	Alaba Chillian Color Col
Mossbauer spectroscopy, atomic nucleus chemical bond energy levels 1971 Oct p 86-95	molecular evolution, evolution included a managed substitution
gamma radiation molecular structure gamma radiation molecular structure moas, extinction evolution hunting New Zealand flightless birds 1954 Feb p 84-90	evolutionary distance measured by animal 1975 May p 110 118 [1012]
moas, extinction evolution many 1934 rea p by	

molecular modeling, mathematical model, computer modeling, giant	
more data to the boundary DNA	ultracentrifuge, angular momentum, ultra-high speed rotation, magnetic flotation, 90 million r p s 1961 Apr p 134-147
molecules, cytochrome helix, myoglobin, hemoglobin, DNA 1966 June p 42-52 [1043]	mollusk shells, amino acids, fossil, bone, paleontology, paleobiochemistry
molecular motion, crystal structure, computer modeling, particle motion	1956 July p 83–92 [101]
key to bulk properties of materials 1959 Oct p 113–126 [265]	genetic variation, gene mutation, natural selection, polymorphism.
Kerr gate, laser mode-locking, quantum mechanics, Raman clock,	biological diversity, discontinuous variation
ultrafast phenomena, picosecond molecular processes	1975 Aug p 50-60 [1326]
1973 June p 42–60	mollusks, animal behavior, central nervous system, neurophysiology
molecular orbitals, carbenes, carbon chemistry, chemical reaction,	1971 Feb p 68–75 [1212]
reactive intermediates 1976 Feb p 101–113	bivalves, clams, marine life, symbiosis 1975 Apr p 96–105
molecular orbits, molecular structure, electron shells, computer modeling,	momentum, matter, energy, high-energy physics, conservation law, conservation laws in particle physics 1963 Oct p 36-45
quantum chemistry, computer graphics 1970 Apr p 54-70	conservation laws in particle physics 1963 Oct p 36-45 monarchy, Kuanyama Ambo, anthropology, social controls, murder
molecular physics, electromagnetism, intermolecular force, Coulomb	1950 Oct p 52–55
force, measurement of intermolecular force between macroscopic bodies 1960 July p 47-53	money, commerce, bride price, cultural anthropology, red-feather money,
molecular replication, self-reproducing machine, automata theory,	Southwest Pacific-Solomon Islands culture 1962 Mar p 94-104
computer technology, machine models of molecular assembly	Mongol conquests, cavalry, war, Chingis Khan, frontier history, nomatic
1959 June p 105–114 [74]	civilization, Chingis Khan, biography 1963 Aug. p 54-68
molecular repulsion, adhesive, molecular attraction, surface tension,	mongolism, see Down's syndrome
elastic energy, epoxy resins, micromechanics of adhesion	monkey, primate behavior, Japanese macaques, primate societies,
1962 Apr p 114–126	protocultural behavior, social status 1976 Oct p 96–106 [1345] sex pheromone 1971 Sept p 76
molecular rotation, klystron, microwaves, spectroscopy, laboratory applications of microwaves 1957 May p 46-53	sex pheromone 1971 Sept p 76 monkey brain, holography, memory, learning, brain function, interference
applications of microwaves 1957 May p 46-53 molecular science, polymers, addition polymers, condensation polymers,	patterns, holographic model, neurophysiology of remembering
introduction to single-topic issue on 'giant molecules'	1969 Jan p 73–86 [520]
1957 Sept p 80-89	monochromator, fission reactor, neutron beam, neutron diffraction,
polymers, addition polymers, condensation polymers, introduction to	neutron flux, reactor as research instrument
single-topic issue on 'giant molecules' 1957 Nov p 80–89	1953 Aug. p 23–29 [219]
molecular sieves, zeolites, ion exchange, adsorption, separation of similar	monomolecular films, molecular structure, properties and uses of
molecules 1959 Jan p 85-94 molecular signals, cell membrane, intercellular communication, salivary	monomolecular films 1961 Mar p 152–164 thin-film optical devices, interferometry, fluorescence, wave motion,
gland, epithelium, membrane permeability, junctions in cell	light waves, fatty acids 1970 Mar p 108–119
membrane 1970 May p 78-86 [1178]	crystal surfaces, molecular surface films, two-dimensional crystals
molecular size, light scattering, photometry, aerosol, hydrosol, Tyndall	1973 May p 30-40
spectra, measurement 1953 Feb p 69-76	monosaccharides, cellulose, cell wall, plant cell, polysaccharides
molecular spectra, astrochemistry, interstellar matter, space exploration,	1975 Apr p 80–95 [1320]
local galaxy 1973 Mar p 50–69	monsoons, economic development, irrigation, Mekong river, floods,
molecular structure, chemistry, chemical bond, crystal structure, protein structure, chemical kinetics, science, chemistry 1900-1950	hydro-engineering, rice, Mekong river plan, United Nations 1963 Apr p 49-59
1950 Sept p 32–35	'green revolution', India, food and agriculture, technology transfer,
polymers, elastomers, X-ray diffraction, mechanical properties of giant	irrigation, fertilizers, rice, agronomy, wheat, hybrid crop plants
molecules 1957 Sept p 120-134	1976 Sept p 154–163
magnetic resonance, nuclear magnetic resonance, spectroscopy,	monsters, Homo monstrosus, manlike creatures, mythology
	1000.0
magnetometer, large molecule spectroscopy	1968 Oct p 112–118
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233]	Monte Carlo fallacy, psychology, probability, decision making, subjective
magnetometer, large molecule spectroscopy	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427]
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128-138 [427] Monte Carlo method, Buffon needle problem, random numbers,
magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96
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magnetometer, large molecule spectroscopy 1958 Aug p 58-66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152-164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94-102 [286]	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by
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magnetometer, large molecule spectroscopy 1958 Aug p 58–66 [233] monomolecular films, properties and uses of monomolecular films 1961 Mar p 152–164 catenane, chemical topology, topological isomer, cyclic molecules, ring molecules, linking and knotting of ring molecules 1962 Nov p 94–102 [286] electron shells, computer modeling, quantum chemistry, molecular orbits computer graphics 1970 Apr p 54–70 atomic nucleus, chemical bond, energy levels, gamma radiation, Mossbauer spectroscopy 1971 Oct p 86–95 aromatic hydrocarbons, benzene derivatives, aromaticity	Monte Carlo fallacy, psychology, probability, decision making, subjective probability, gambling, subjective and objective probability 1957 Nov p 128–138 [427] Monte Carlo method, Buffon needle problem, random numbers, probability, mathematics 1955 May p 90–96 galactic clusters, probability, universe, gravitation, cosmology, distribution of galaxies as test of cosmologies 1956 Sept p 187–200 gas kinetics, computer modeling, mathematical model, chemistry by computer 1964 July p 100–108 moon, cratering, meteorites, tectonic processes, origin of lunar craters 1949 July p 20–24
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topography of 'back' of the moon	1959 Dec p 79	embryonic development. Hydra, morphogans	н, сениаг розану, -
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US Apollo program	1962 Oct p 63	morphology, pollen, scanning electron microscope	, flower, plant cell
U S Apollo program	1963 Sept p 83 1963 Dec p 64	19	68 Apr p 80-90 [1105]
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Luna 9 far-side photographs	1965 Oct p 40	poverty as cause of death in New York City	1953 May p 81-86 1965 Apr p 58
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'size constancy' correction	1959 Nov p 95	medical care, surgery, surgical specialties, malprac	tice claims, post-
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A	1960 Jan p 60–68	magnite unuallante chamaragantar macauta fargets	
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most on one-third morel, mycology, fungi, wheat rust, ergot, potato blight	manita.	1939 W	at 1) 40 22 10 3
Pentullium notatum yeast, molds and men		sonar bats predator-prey relationship auditory perce	ption
1952 Ja:	n p 28-32 [115]	ultrasound, moth sonar detection of bat ultrasound	p 94-102 [1009]
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morphine, alkaloids, plant physiology strychnine, hemloc physostigmine, caffeine, contine quinne, cocaine rec	inine LSD.	optical illusion size perception illusions as clues to o	1 Aug. p. 50-55
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motion picture film, aggression, violence, de	clinquency, television,		p 74–82 [92]
catharsis, effects of observing filmed vi	iolence	gene transcription, protein synthesis, the RNA messenger f protein synthesis 1962 Feb p	rom gene to
	1964 Feb p 35–41 [481]	protein synthesis tRNA, genetic code, DNA, ribosome, protein synthesis, gei	
motion pictures, psychiatry, psychiatric film	ns in teaching and therapy 1949 Sept p 42-43	elucidated, amino acid 'dictionary' 1963 Mar p	80-94 [153]
motivation, achievement, aspiration, social		amino acids, protein synthesis, formylmethionine, ribosom	e, tRNA,
self-anchoring scale	1963 Feb p 41–45	initiation of protein synthesis 1968 Jan p	36–42 [1092]
'reactive inhibition', fatigue, schizophren	na, experiment in objective	DNA transcription, electron microscopy, gene action visua	
measurement of motivation	1963 May p 130-140	ribosome 1973 Mar p	
motor neuron, nerve conduction, synapse,	reflex arc, membrane potential,	genetic engineering, frog eggs, gene expression, hemoglobin molecule 1976 Aug p	i, Kiva 60_71 [1343]
inhibitory impulse, transmitter molecu	1965 Jan p 56–66 [1001]		1 Aug p 62
at the neural synapse central nervous system, reflex arc, neuro			1 Dec p 81
contraction, nerve inhibition, interneu	iron, stretch reflex, Renshaw		2 May p 78
cell, synapse	1966 May p 102110		9 Dec p 53
nervous system, vision, reflex arc, intern	euron, animal behavior, small	mRNA inhibition, antibiotics, actinomycin, DNA-actinomyci	
neuron systems as models for study	1967 May p 44–52 [1073]	protein synthesis 1974 Aug p	02-91 [1303]
bacterial toxin, tetanus, botulism, paraly impulse, synapse, Clostridium tetani,	Clostedum botulinum	mucus, glycoprotein synthesis, Golgi apparatus, goblet cells,	
impuise, synapse, Clostitulum tetain,	1968 Apr p 69–77	carbohydrate, saccules 1969 Feb p 10	
motor reflex, central nervous system, med	ulla, reticular formation, brain,	mulch, dust storms, drought, dry-land farming, soil reclamation	on,
perception, neurophysiology, attentio	on and orienting mechanism in	agricultural technology, shelter belts, U S High Plains 19	
brain	1957 May p 54-60 [66]	agricultural technology, herbicide, weed control, tillage wit	Aug p 7–11
motor vehicle accidents, mortality by age g motor vehicle death rates, international co	group 1968 Mar p 54 omparison 1966 Sept p 102	agricultural technology, herbicide, weed control, thiage with	
mound builders, New World archeology, a	gricultural revolution.		3 Apr p 84
statistical seriation, Mississippian cul	lture, pre-Columbian	mules, animal husbandry, horse, donkeys, genetics and natur	al history of
Mississippi valley on verge of urban r	revolution 1952 Mar p 22-27	mule 1970 Dec p 10	
Mount Ararat, Biblical archeology, Urarti	u, Altıntepe, 800 B C culture at	multiband camera, aerial photography, natural resources, infr	
Noah's landing-place Mount McKinley, cartography, photogran	1967 Mar p 38-46 mmetry 1949 Jan p 46-51	photography, remote sensing, remote sensing of natural 1968	resources Ian p 54–69
mountain formation, tectonic processes, E	arth mantle, convection		4 Sept p 68
currents, the 'blister hypothesis'	1949 June p 16–21	multiphasic screening, national health insurance, medical care	
Earth crust, isostasis, granitization, oce	an basins, ocean floor, tectonic	technology, Kaiser health plan, H M O, screening out th	
processes, comprehensive review of u			Apr p 15–23
acceptance of continental drift) continental evolution, geosyncline, plat	1950 May p 32–41	multiple independently-targetable reentry vehicle, see MIRV multiple resistance, bacteria, drug resistance, mutation, DNA	P factor
Apallachian foldbelt	1972 Mar p 30–38 [899]		Dec p 19-27
continental drift, earthquake zones, ma	agnetization patterns, subduction	multiple sclerosis, autosensitivity, nervous disease, autoimmu	
zones, plate tectonics, sea floor sprea			July p 16-19
geology	1972 May p 56–68 [900]	allergic reaction, autosensitivity, poison ivy, dermatitis, rhe	
continental drift, Gondwanaland, Him formation, magnetization patterns, p		arthritis, delayed hypersensitivity 1960 Apr brain disease, scrapie, kuru, Chediak-Higashi syndrome, vi	r p 129–137
spreading	1973 May p 62–72 [908]	animal vectors 1967 Jan	p 110–116
Andes, earthquake distribution, plate t	tectonics, seismic waves, volcanic	slow virus infection, myelin sheath, poliomyelitis, demyelin	ating factor.
activity	1973 Aug p 60–69 [910]	latent viruses 1970 J	uly p 40-46
dust storms, Mars, terrestrial planets, of erosion, hydrology, solar system	1975 Sept p 106–117	virus implicated 197 multiple-star systems, planetary systems, sunlike stars, freque	6 May p 53
earthquake zones, island arcs, lithosph	iene subduction, plate tectonics,	systems', survey of 123 nearby stars 1977 Ar	or p 96-104
sea-floor spreading subduction zon	es, volcanic zones	multiplexing, communication technology, laser, signal transm	ussion,
continental drift earthqual areas. C	1975 Nov p 88–98 [919]	signal transmission by laser 1966 Jan p	19-27 [302]
continental drift, earthquake zones, G India-Furasia collision, plate tecton	oon Desert, Himalaya formation,	communication networks, communication satellite, electron	nic
plateau	1977 Apr p 30-41	switching, network theory, radio, communication, teleph television systems 1972. Sept	one systems, 1 p 116–128
mountain glaciers, climate, glaciation sir	nce Ice Age, sea-ice fluctuations	multipotential cells, cancer, tumor, teratoma, gene expression.	. plant cell
glacier fluctuations mountains, avalanche control, snow, ho	1970 June p 100-110	inhibitions 1965 No. p.	75_83 (1024)
prevention of slides	ar frost, types, causes and 1966 Feb p 92–101	multivariate analysis, stone tools tool assemblages, factor and	ilysis.
mouse, population control animal migr	ration, food supply	computer analysis Paleolithic archeology, Bordes metho tools as fossils of behavior 1969 Apr p	d, stone
	1955 Dec. p. 92-100	municipal hospitals, medical economics, medical care, public	70-84 [643]
water retention physiological adapta musculus, commensal of man	tion behavioral adaptation, Mus	voluntary hospitals proprietary hospitals, metropolitan	medical
mouse-human hybrid cells, cell hybridiz	1969 Oct p 103-110 [1159]	economics in New York City 1965 i	lan n 10 27
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Mousterian assemblages, glaciation Tee Ukraine	Age hunters mammoths	1957 July =	72-88 [213]
moving-boundary electrophoresis, electric	1974 June p 96–105 [685]	particle interaction electron weak force, high-energy phy	12-00 (213) SICS
wineren wanning	1951 Dec. p. 45–53	properties of massive negative particle 1061 t	41 66 1375
mosing stones, on Raceteast Mass.	222 220 h 42403	machinal election elementary particles electromagnetism	l ,
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muon-beam, communication system proposed 1972 Sept p	66
muon neutrino, a particle interaction, hera decay, noutres	sarcoplasmic reticulum, insect flight, synchronous muscle, asynchronous muscle, insect flight muscles
accelerator, weak' force, experiment demonstrating existence of muon neutrino	1965 Inne p. 76 99 Hall
muonic atoms, atomic nucleus, atomic structure, exotic atoms, kaonic	actin, muscle contraction, protein switch transmissing transmin
months, particle acceptator, pions, quantum mechanics high-angenty	1075 No. 26 AS 112701
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nontain, moon, electron, elementary particles, electromagnetism,	muscle relayation muscle control of the part of the pa
positronium, atom, structure of muonium 1966 Apr p 93-16 murder, psychoanalysis, psychopathology, 'prevention of murder'	A 1 P, actinomyosin 1952 Dec p. 18.21
Kuanyana Amba and and a specific properties of murder 1949 June p 50-5	muscle spindles, muscle control, psychophysics, sensory feedback
Kuanyama Ambo, anthropology, social controls, monarchy	servomechanisms, stretch reflex, tendon organ
1050 Oct = 52 5	5 muscle tissue, embracase cells11 dec
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muscial notation, hearing, loudness variations, musical dynamics, musical instruments, musician performance 1974 Nov. p. 78-9	mushroom poisoning, fungi, mushrooms, toxins. Amanita phalloides
muscle, locomotion, walking, primates human evolution, himodal	Injectic acid 1975 Mar n 90-101
walking, bone, fossil record, origin of human walking	mushrooms, fungi, plant growth, mycelium, burgeoning explained
1967 Apr n 56 66 11070	1956 May p 97-106 fungi, mushroom poisoning, toxins, Amanita phalloides, thiocine acid
A1P, glycol) sis, aerobic metabolism, oxygen debt lactic acid	1975 Mar p 90-101
formation, aerobic metabolism, anaerobic metabolism, energy mechanisms in muscle 1977 Mar. p. 84-91 11244	rapid culture of mushroom 1956 May p 62
artificial muscle lifts 100 pounds 1972 Mar p 84-91 [1244] artificial muscle lifts 100 pounds 1951 July p 32	
see also artificial muscle	i de de la company de la compa
muscle cell, cell anatomy, spermatozoon, ovum, virus, science history,	structure of music 1959 Dec p 109-120 sound reproduction, tape recorders, speech grammaphones, auditory
cytology, plant cell, connective tissue cell, introduction to single-	perception, engineering of sound systems 1961 Aug p 72-84
topic issue on the living cell 1961 Sept p 50-61 [90] muscle contraction, ATP, actin, myosin, muscle fibril, biochemical	bass, cello, viola, violin, Chladni patterns, musical instruments physics
mechanism of muscle contraction 1949 June p 22-25	of violins 1962 Nov p 78-93
physiology, nervous system, endocrine system, respiration, nerve	musical instruments, piano, harmonics, harpsichord physics of the piano 1965 Dec p 88-99
impulse, science, physiology 1900-1950 1950 Sept p. 71-76	voice, singing voice, pharvnx, larvnx, acoustics of singing voice
artificial muscle, Langmuir trough, ATP, actinomyosin, muscle relaxation 1957 Dec. p. 18-21	1977 Mar p 82-91
ATP, fermentation, citric-acid cycle, energy transformation	music and mathematics, musical scale, tone ladder, Pythagorean doctrine
1953 Apr p 85-92	harmonic proportions, Kepler, vibrating string 1967 Dec p 92-103 music perception, brain hemispheres cerebral dominance left-
energy transformation, actinomyosin, mechanochemical engine	hemisphere functions, right-hemisphere functions, auditory
1954 Mar p 72–76	perception, visual perception 1973 Mar p 70-78 [534]
cardiac arrhythmia, heart, coronary occlusion, cardiac pacemaker, operation of cardiac pump 1957 May p 74-87 [62]	musical dynamics, hearing, loudness variations, musical instruments musical notation musician performance 1974 Nov. p. 78-95
grasshopper, nerve conduction, biomechanics of leap	musical notation musician performance 1974 Not p 18-33 musical illusions, auditory perception, brain hemispheres, cerebral
1958 Jan p 30-35	dominance, handedness, hearing, illusions, perception, two-tone
electron microscopy, muscle fiber, myosin, actin, muscle fiber structure	illusion 1975 Oct p 92–104 [300]
and function 1958 Nov p 66-82 [19] actinomyosin, cyclosis, cilia, flagella, cytology, cytoplasmic streaming,	musical instruments, vibrating air column clarinet, oboe, flute, bassoon English horn, saxophone, physics of the wood winds
actin, myosin, underlying unity of cellular motion	1960 Oct p 144-174
1961 Sept p 184-204 [97]	have calle male make Chieden natterns music this see of violins
actin, myosin, ATP, electron microscopy, sliding-filament hypothesis	1962 Nov p 78-93
1965 Dec p 18-27 [1026] central nervous system, reflex arc, neuromyscular control, nerve	music, piano harmonics harpsichord, physics of the piano 1965 Dec p 88-99
inhibition, interneuron, motor neuron, stretch reflex, Renshaw cell,	physics of brosses have flore tripped hell tripped bille
synapse 1966 May p 102-110	physics of orasses, north flate, frumper och, reamper physics of other physics of orasses, north flate, frumper och, reamper physics, north flate, fru
locust, insect flight, flight control system, nerve network, inhibitory impulse 1968 May p 83-90	string instruments, 'following bow' experiment, Raman waves 'wolf' note, physics of bowed string 1974 Jan p 87-95
ATP, calcium, barnacle, bioluminescence, aequorin, calcium ions in	harring loudness a greations, musical dynamics, muscual notation
muscle construction 1970 Apr p 84-93 [1175]	musician performance 1974 Nov p 16-33
physiological tremor, sensory feedback 1971 Mar p 65-73 [1217] ATP, actin, myosin, actinomyosin, tropomyosin, troponin, calcium	musical scale, physics, harmony, string instruments, wind instruments piano, voice, acoustics agreeable melodies and physical laws
microstructure of muscle filament and biochemistry of contraction	1948 July p 32-41
1974 Feb p 58-71 [1290]	tone ladder, Pythagorean doctrine music and mathematics harmonic proportions Kepler, vibrating string 1967 Dec p 92-103
actin, muscle fibril, protein switch, tropomyosin, troponin, myosin	proportions Kepler, vibrating string 1967 Dec p 92-103 musical tones, oscillographs 1951 May p 52-53
calicum in muscle 1975 Nov p 36-45 [1329] single-unit control 1964 Mar p 58	musician performance hearing loudness variations musical dynamics
muscle control, muscle spindles, psychophysics, sensory feedback	musical instruments muscial notation 1974 Not p 18-93
sen omechanisms, stretch reflex, tendon organ	muskone, pheromones insect physiology, sexual behavior queen substance, social behavior ants Gypsy moths mice
1972 May p 30-37 [1249] brain organization, cerebellum, cerebral motor cortex, monket	1963 May p 100-114 [131]
experiments (9/3 July p 90-103 [127]	mussels, malnutrition food supply, human population hunger human
wiente Cher calcium hone mitotic spindle, calcium and life	nutrition Incaparina eland capybara manatee developing countries unorthodox food sources 1967 Feb p 27 35 [10/5]
1931 Julie 1 00-03	mutation, neurospora, natural selection, gene expression, Mendehan
electron microscopy, muscle contraction, my solid p 66-82 [19]	inheritance genetic disease, tryptophan niacin relation, one gene
Structure and rancoon assure reticulum, electron microscops,	one enzyme hypothesis, selection for defect 1948 Sept. p. 30-19 [1] phenotype genetype gene expression 1949 Oct. p. 46-47
sarcoplasmic reticulum, functions deduced from structure 1965 Mar p 72-80 [1007]	population genetics evolution E coli Drosophila sexual
ATP actin muosin biochemical	recombination speciation natural selection genetic bills of
muscle fibril, muscle contraction ATT, actin hijosia. 1949 June p 22-25 mechanism of muscle contraction	evolution 1979 Jun p 12 At [0]

eratogenesis, genetic disease, studied for clues to genetic controls 1950 June p 16–19	mutualism, fungı, insect behavior, fungus gardens, insect-fungus relations 1967 Nov p 112-120 [1086]
chromosome, evolutionary diversity, science, genetics 1900-1950, one	mycelium, fungi, mushrooms, plant growth, burgeoning explained 1956 May p 97-106
human evolution, natural selection, gene mutation, eugenics, 'man's	Mycenaean civilization, Classical archeology, burial treasure, Agamemnon, dig started by Schliemann continues
genetic future' 1952 Feb p 68-74 Lysenkoism, Lamarck, acquired characteristics, genotype, evolution,	1954 Dec p 72–78
Lysenkoism, Lamarck, acquired characteristics, genotype, evolution,	Greek civilization, Linear B script, Classical archeology, Pylos, King
phenotype, ostrich calluses, speciation, religion, orthodoxy,	Nestor's palace, 1200 B C 1958 May p 110–121
Darwinism, experiments in acquired characteristics	castle, nuraghi, Classical archeology, building construction, 1000 BC
1953 Dec p 92–99	proto-castles in Sardinia 1959 Dec p 62–69
virology, tobacco mosaic virus, amino-acid sequence	Bronze Age, Iron age culture, rock paintings, Camunian culture, Italian
1955 July p 74-78 [59]	rock carvings 1960 Jan p 52–59
ionizing radiation, recessive gene 1955 Nov p 58-68 [29]	Hebrew civilization, Linear A script, Linear B script, Minoan
Mendel's laws, chromosome mapping, science history, the gene on the	civilization, Crete, Semites, common origin of Greek and Hebrew
eve of the resolution of the genetic code 1956 Oct. p 78-90 [17]	civilizations 1965 Feb p 102–111
camouflage, evolution, melanism, moths, speciation, air pollution,	Greek prehistory, Linear B script, origins of writing
population genetics, genetic variation, evolution observed	1972 Oct p 36–44 [681]
1959 Mar p 48–53 [842]	mycology, fungi, wheat rust, ergot, potato blight, morel, amanita,
chromosome breakage, radiation damage, ionizing radiation, cytology,	
radiation damage to living cell 1959 Sept p 94-100 [57]	Penicillium notatum, yeast, molds and men 1952 Jan p 28-32 [115]
evolution, ionizing radiation, radiation-induced mutation in evolution	my corrhiza, fungi, orchids, symbiosis, plant evolution, adaptation,
1959 Sept p 138–160 [55]	
environmental pollution, ionizing radiation, fallout, atomic bomb test,	
radiation damage, public health, hazards of radiation to society	my elin sheath, cell membrane, electron microscopy, endoplasmic
1959 Sept p 219–232 [1214]	reticulum, mitochondria, nuclear membrane, electron microscope
cancer therapy, radiation damage, nitrogen mustard, carcinogenesis,	study of membranes in cell 1962 Apr p 64-72 [151] slow virus infection, multiple sclerosis, poliomyelitis, demyelinating
nuclear medicine, chemical imitation of radiation injury	
1960 Jan p 99–108	factor, latent viruses 1970 July p 40–46 myeloma, antibody molecule, immunoglobin, antigen binding, Bence-
radiation damage, high-energy radiation, nuclear medicine, X-ray, no	Jones proteins, amino-acid sequence, antibody amino-acid sequence
threshhold to biological damage by radiation	
1960 Apr p 142–153 [71]	determination 1970 Aug p 34-42 [1185] myocardial infarction, cancer, enzyme blood levels, hepatitis, cancer
antibodies, antigens, protein synthesis, immunology, immune response,	diagnosis, leukemia, medical diagnosis, diagnosis by presence of
selection theory of immunity 1961 Jan p 58–67 [78] penicillin, drug resistance, bacteriology 1961 Mar p 66–71	abnormal enzymes 1961 Aug p 99–107
penicillin, drug resistance, bacteriology 1961 Mar p 66-71 DNA, ultraviolet radiation, effects of ultraviolet on weakest links in	my ogenic rhythm, cell differentiation, cell aggregation, heart cells, heart
chain 1962 Dec p 135–144 [143]	contraction, rat cardiac cells in vitro 1962 May p 141-152
genetic code, tobacco mosaic virus, RNA nucleotides, protein	my oglobin, insulin, protein structure, ribonuclease, amino-acid sequence,
synthesis, amino-acid sequence, relation of RNA mutations to amino	enzyme action, resolution of atomic structure of three molecules
acid changes 1964 Oct p 46–54 [193]	1961 Feb p 81–92 [80]
congenital anomalies, genetic disease, hemophilia, epidemiology, in	amino acids, proteins, X-ray crystallography, alpha helix, 3-D structure
Queen Victoria's descendants 1965 Aug. p 88–95	of protein molecule 1961 Dec p 96–11 [121]
antibiotics, protein synthesis, streptomycin, genetic code, ribosome,	allosteric enzymes, hemoglobin, X-ray diffraction amino-acid
DNA, RNA, 'misreadings' induced by antibiotic alterations of	sequence, contour maps, folding of four chains, alpha chain, beta
nbosomes 1966 Apr p 102–109	chain 1964 Nov p 64-76 [196]
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triplets, RNA, anticodon, ribosomes, triplets, wobble hypothesis	cooperative enzymes, allosteric enzymes, control of biochemical
1966 Oct. p 55–62 [1052]	reactions 1965 Apr p 36-45 [1008]
protein structure, amino-acid sequence, gene protein colinearity, DNA	evolution hemoglobin, molecular evolution, amino acids, evolutionary
structure, gene mapping, base 1967 May p 80-94 [1074]	distance measured by amino-acid substitution
bacteriophage, virus structure, T4 virus, DNA, morphogenesis, test-	1965 May p 110-118 [1012]
tube reconstruction of viral components 1967 July p 60-74 [1079]	mathematical model, computer modeling, giant molecules, cytochrome
bacteria, drug resistance, DNA R-factor, antibiotics, transferable drug	helix, hemoglobin, molecular modeling, DNA
resistance, multiple resistance 1967 Dec p 19–27	1966 June p 42-52 [1043]
blood groups, genetic drift, consanguinity, gene pool, evolution,	tertiary structure 1959 June p 76
population genetics Parma Valley, Italy 1969 Aug. p 30-37	antigen structure 1976 Mar p 60B
evolution gene pool, genetic load, electrophoresis, population genetics heterozygosity 1970 Mar p 98-107 [1172]	myosin, muscle contraction, ATP, actin, muscle fibril, biochemical
and a second of the second of	mechanism of muscle contraction 1949 June p 22–25
25 % trialy p 20	flagella, contractile proteins keratin, epidermis, 'k m e f' group,
mutation directed, in Brookhaven reactor 1954 Jan p 44 mutation rate, evolution, E. coli, penicillin resistance, evolution observed	motility in bacteria 1951 Jan p 20–24
1953 Oct p 78–83	collagen, elastin keratin, fibrin, cell polymers, polymers in living cells
DNA replication, ultraviolet radiation, radiation damage, thymine	1957 Sept p 204-216 [35] electron microscopy, muscle contraction, muscle fiber, actin, muscle
dimer, repair of DNA 1967 Feb n 36_43	fiber structure and function 1958 No. p. 66-82 (10)
Cytochrome C, protein evolution, protein structure, resouration, amino-	fiber structure and function 1958 Nov p 66-82 [19] actinomy osin, cyclosis, cilia, muscle contraction, flagella cytology,
acid substitution 12 billion year record of evolution, ancient protein	cytoplasmic streaming, actin, underlying unity of cellular motion
1977 Apr n 58 72 (1245)	1961 Sept p 184–204 [97]
mutual assured destruction, ABM, arms race 1CRM, MIDV STRAC	actin, muscle contraction, ATP, electron microscopy, sliding-filament
counterforce strategy, strategic balance, national security	hypothesis 1965 Dec. p. 19 27 (1924)
1969 Aug p 17–29 [330]	A 17, actin actinomyosin, muscle contraction, tronomyosin, tronomy
atomic weapons arms race, SALI, MIRV, counterforce strategy,	calcium microstructure of muscle filament and biochemistry of
arms control antisubmarine warfare, missile submarines SALT,	contraction 1974 Feb a 59 71 (1990)
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ABM ICBM MIRV, atom c armaments counterforce strategy.	Gopolini Calicum in muscle 1075 No 26 46 11000
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- Land of the land	1951 Mar p 42-43
nastic movement, plant movement, turgor movement	1951 Wai p 42–43
phototropism, touch orientation	iit, geotropism,
National Academy of Engineering, established	1955 Feb p 100-106
National Academy of Science	1965 Feb p 50
National Academy of Sciences, gene manipulation,	, gene splicing,
recombinant DNA, science policy, NIH guide	elines
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elections	1951 May n 32
National Accelerator Laboratory, particle accelerate	or, proton beam
neutrino beam, synchrotron	1974 Feb n 72 92
National Astronomical Observatory, to be located a	t Kitt Peak
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National Bureau of Standards, see NBS	1220 May p 34
'national character', cultural anthropology, tribes	10/10 Aug = 11 15
national economic policy, economic development, in	CI-II d Snu cect
agricultural technology, Federal intervention in	iuusiranzanon,
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national health increases and and and	1963 Sept p 224-232
national health insurance, medical care, group pract	
	1949 June p 11-15
medical care, medical technology, multiphasic scr	eening, Kaiser health
plan, H M O, screening out the 'worned well'	1970 Apr p 15–23
medical care, health statistics, medical-cost control	
expenditures, US Federal expenditure on med	
	1971 Apr p 17-25
infectious disease, medical care, child health care,	
illness, delivery of medical care	1973 Apr p 13-17
medical care financing, H M O, Kaiser health pla	n, Medicaid,
	973 Sept p 169-175
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National Ocean and Atmosphere Administration, see	NOAA
National Science Board, fortifies N S F	1952 Jan p 38
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national security, arms race, atomic test ban, atomic l	oomb test, missile
policy, military technology, fallout shelters 1964	4 Oct p 27–35 [319]
ABM, arms race, ICBM, MIRV, SLBM, mutual as:	sured destruction
counterforce strategy strategic balance 1969	Aug p 17-29 [330]
natural fibers, artificial fibers, spinning technology, te	xtile fibers, varn
	1972 Dec D 46-36
natural gas, pipelines, economic regionalism in US, a	ppraisal of natural
gas, economics and resources in US	1951 Nov p 17-21
coal, energy resources, oil reserves, energy economic	
impending petroleum shortage	1956 Oct p 43-49
liquid natural gas, pipelines, tankers, storage, distrib	
iiquid natural gas, pipelines, minare, rierege,	1967 Oct p 30-37
natural history, insect behavior, social insect, army ant	, ants, comparative
psychology, reproduction, feedback, pheromones,	trophallaxis,
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hickory, fences, axe-handles, smoked ham, hickory n	uts, economic n
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placiation paleontology, Agassiz, Louis Agassiz, fost	tering of science in n
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	953 Nov p 86-91 N
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Arachnida, false scorpion, animal behavior, Chelifer canroides
                                                        1966 Mar p 95-100 [1039]
          aggression, rats, animal behavior, social behavior, territorial behavior
             Rattus rattus, Rattus norvegicus
                                                               1967 Jan p 78-85
          cryptozoa, Berlese funnel, ecological niche, cryptosphere, animal
             behavior, life under rocks and rotting logs
                                                       1968 July p 108-114 [1112]
          albatross, evolution, animal behavior, bird flight, sexual behavior,
            soaring
                                                        1970 Nov p 84-93 [1204]
       natural polymers, materials technology, polymers, plastics, cross linking
            covalent bonds
                                                            1967 Sept p 148-156
       natural reactor, CANDU reactor, nuclear power, heavy-water reactor,
            fission reactor, CANDU system
                                                               1975 Oct p 17-27
         fission products, nuclear fission, Oklo phenomenon, Precambnan
           reactor, uranium deposits
                                                              1976 July p 36-47
         nuclear power, CANDU reactor
                                                                  1975 July p 45
      natural resources, Earth crust, mining, metal ores, natural concentration
                                                           1960 June p 146-154
         magnetometer, geomagnetism, mining, mineral prospecting, aenal
           prospecting
                                                           1961 June p 151-162
        aerial photography, infrared photography, remote sensing multiband
           camera, remote sensing of natural resources
                                                              1968 Jan p 54-69
        distribution of wealth, economic development, middle classes,
          population growth, production statistics, demographic transition
                                                             1976 July p 28-35
     natural selection, neurospora, mutation, gene expression, Mendelian
          inheritance, genetic disease, tryptophan-niacin relation, one gene
          one enzyme hypothesis, selection for defect 1948 Sept p 30-39[1]
       population genetics, evolution, E coli, Drosophila, mutation, sexual
          recombination, speciation, genetic basis of evolution
                                                         1950 Jan p 32-41 [6]
       extinction, species specificity, adaptation, evolutionary radiation.
                                                           1950 Nov p 52-55
          ecological niche. 'Is man here to stay?'
       human evolution, gene mutation, mutation, eugenics, 'man's genetic
                                                           1952 Feb p 68-74
         future'
       biology, evolution, philosophy of science, creativity, innovation in
                                                    1958 Sept p 100-113 [48]
         biology
       Darwinism, Wallace, science history, life and work of Alfred Russel
                                                           1959 Feb p 70-84
         Wallace
      genetic adaptation, human evolution, civilization, culture, human
                                                  1960 Sept p 206-217 [609]
        evolution in man-made environment
      fossil record, species extinction, glaciation, 'catastrophism', crises in the
                                                     1963 Feb p 76-92 [867]
        history of life
      genetic variation, gene mutation polymorphism, mollusk shells
        biological diversity, discontinuous variation
                                                   1975 Aug p 50-60 [1326]
     lek behavior, sage grouse, sexual behavior, lek mating behavior in sage
                                                 1978 May p 114-125 [1390]
        grouse
                                                             1952 June p 42
     observed in E coli
  Navaho, social values, Mormons, Zunis, Spanish-Americans agricultural
       system, comparative study of cultures in New Mexico
                                                          1956 July p 25-31
  navigation, interplanetary navigation, spacecraft, orbital motion, rocket
       communication technology, technology of space navigation
                                                        1960 Mar p 64-73
    Mariner 2, space exploration, telemetry, Venus, orbital motion high
                                                         1963 July p 70-84
       resolution studies of Venus
    pottery, human migration, Japan, Ecuador, New World archeology
                                                         1966 Jan p 28-35
      evidence for 3,000 B C trans-Pacific contact
    accelerometer, aircrast navigation, air transport, inertial navigation
      gyroscope, commercial adaptation of military and space technology
                                                       1970 Mar p 80-86
                                                         -- I the like
   see also interplanetary
                                                             ic weapons
 navigation systems, arms r
                                                 1977 Feb p 20-29 [691]
      tactical weapons, control systems
navigational accuracy, interplanetary navigation, Mars, spacecraft
                                                       1976 June p 58-74
     navigation, Viking missions
NBS. National Bureau of Standards
                                                          1954 Sept p 74
NBS computer, 20 000 germanium diodes
                                                          1953 Sept p 76
NBS demobilized, no military research
Nea Nikomedeia, Macedonia, Neolithic village clay figurines domestic
     animals, agricultural society, oldest Neolithic site in Europe
                                                      1965 Apr p 82-92
Neanderthal man, Homo sapiens, Charente skull, Galley Hill skull,
    human evolution, Swanscombe cranium antiquity of Homo expiens
                                                     1919 July p 16-19
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human evolution, Neolithic archeology, Shanidar cave, layer by layer, 100,000 years occupation by man 1957 Nov p 58-64	metal artifacts, Turkey, metallurgy, copper, village-farming communities, man's first use of metals 7,500 B C
anthropology, human evolution, co-existence of Homo sapiens and Neanderthal man 1957 Dec p 89–96 [844]	1970 Mar p 50-56 woodhenges, henge monuments, Britain, Stonehenge
science history, Devon caves, human evolution, stone tools, idea of man's antiquity 1959 Nov p 167-176	1970 Nov p 30-38 Hoabinhian culture, agricultural revolution, Spirit Cave site, Thailand
fear East, Arabia, irrigation, trade, frankincense, myrrh, Biblical archeology, cultures of southern Arabia 1969 Dec p 36–46 [653]	1972 Apr p 34-41 [675] Greek prehistory, Stone Age civilization, Franchthi Cave
lear East archeology, Greek civilization, Nabataeans, Petra,	1976 June p 76–87 mousetrap in Iran 1967 May p 60
Hellenization of Arabs 1963 Oct p 94-102 ebulae, Milky Way, globular cluster stars, spiral arms, dust clouds,	earthworks, henges, Britain 1970 May p 58
galactic center, seeing a galaxy from the inside 1950 Feb p 30-39	Neolithic revolution, fire-making, human evolution, fire vegetation,
turbulence, galaxies, galactic clusters, hierarchy of turbulence in space 1952 June p 26-30	cooking, kiln, furnace, heat, introduction to single topic issue on heat 1954 Sept p 52-57
Clouds of Magellan, galactic center, globular cluster stars, Southern	Middle East 1964 Aug p 40
sky, Eta Carina, astronomical riches of the southern sky	Neolithic trade, sea-shell origins 1971 Feb p 47
1952 July p 46–37	Neolithic Turkey, metallurgy 1964 Dec p 62 Neolithic village, Macedonia, Nea Nikomedeia, clay figurines, domestic
galaxy, stellar evolution, massive stars, stellar associations, massive stars are short-lived 1956 Feb p 36-41	animals, agricultural society, oldest Neolithic site in Europe
planetary nebulae, spectroscopy, shells of luminous gas around hot,	1965 Apr p 82–92
dense stars 1963 Apr p 60-67	bone, hunting societies, Neolithic archeology, Suberde site in Turkey 1968 Nov p 96-106
Orion nebula, stellar evolution, ultraviolet radiation, hydrogen density, dating interstellar bodies 1965 Feb p 90-101	neonatal disorder, communication, crying, infant behavior, mother-child
galaxy structure, interstellar matter, Milky Way, stellar formation,	interaction, sound spectrogram 1974 Mar p 84–90 [558]
supernovae, galactic dust clouds, Gum Nebula, Bok globules 1972 Aug p 48-61	blindness, medical ethics, premature infants, medical researches, retrolental fibroplasia, 'blind babies' 1977 June p 100–107 [1361]
nebular hypothesis, comet, galactic formation, solar system evolution,	neonatal physiology, lung, breathing, respiration, first breath of newborn
stellar evolution 1975 Sept p 32-41	1963 Oct p 27–38
nebular luminosity, color photography, emission nebulae, interstellar gas, ionization 1974 Oct p 34–43	adipose tissue, hibernation, brown fat, thermoregulation, homeostasis, metabolism, cold adaptation, heat production in newborn animals,
Necker cube, depth reversal, optical illusion, reversing figures, visual	including man 1965 Aug p 62–65 [1018]
perception 1971 Dec p 62–71 [540]	neonatal respiratory distress syndrome, see hyaline membrane disease
negative aftereffects, afterimages, optical illusion, visual perception 1976 Dec p 42-48 [574]	nephron, kidney, counter-current exchange, urine, glomerulus, osmosis, anatomy and physiology of the kidney 1953 Jan p 40-48 [37]
negative feedback, feedback, control loop, servomechanisms, flyball	Neptune, orbital motion, solar system, Pluto, Pluto as escaped Neptunian
governor, positive feedback, ecological system, nervous system,	satellite 1959 Apr p 86-100 [295] outer planets, Pluto, Saturn, solar system, Uranus
economic system, automatic control, feedback concept 1952 Sept p 48-55	1975 Sept p 130–140
negative-income-tax experiment, income maintenance, work attitudes,	Nernst effect, Ettingshausen effect, Hall effect, Righi-Leduc effect,
work incentives, welfare reform 1972 Oct p 19-25 negative ion, particle accelerator, Van de Graaf generator, electrostatic	galvanomagnetism, thermomagnetism, science history, industrial technology, technological applications of 19th c discoveries
belt generator, charge-changing accelerator 1970 Aug p 24-33	1961 Dec p 124-136
negative numbers, mathematics, number theory, irrational numbers, complex numbers, matrix 1964 Sept p 50-59	nerve cells, giant axon, squid, nerve impulse, sodium pump, 'voltage
complex numbers, matrix 1964 Sept p 50-59 negative-pressure concept, cavitation, droplet-levitation technique,	clamp' technique 1958 Dec p 83–90 cell membrane, phospholipids, phosphatidic acid cycle, cell secretion,
liquids, tensile strength, surface tension 1972 Dec p 58–71	membrane transport potential 1965 Oct p 78-86 [1022]
negative resistance, electric field, Gunn effect, microwave emission, solid state physics, electronics, gallium arsenide, solid state microwave	brain circuitry, embryonic development, neuronal specificity, visual cortex, Xenopus laevis 1973 Feb p 26-35 [1265]
generation 1966 Aug p 22-31	leeches, neural organization, nerve physiology, nerve signals, nervous
negative viscosity, eddies, turbulence, wind, nonuniform flows rotating systems, viscosity 1970 July p 72-80	system, reflex arc, neuro motor synapse 1974 Jan p 38-48 [1287]
Neges desert, irrigation, desert ecology, agricultural technology, land	arc, 'hard-wiring' of nervous system 1959 Nov p 68-75 [72]
reclamation, Israel, desert reclamation 1960 Mar p 54-63	dendrites, synapse, postsynaptic potential olfactory bulb, retina,
nematic, liquid crystals, soap bubbles cholesteric, smectic 1964 Aug p 76-85	microcircuits in the nervous system 1978 Feb p 92–103 [1380] nerve conduction, grasshopper, muscle contraction, biomechanics of leap
nematocysts, Portuguese man of-war, social behavior, coelenterate	1958 Jan p 30-35
colonies 1960 Mar p 158-168 nematodes, fungi, carnivorous plants, soil molds, carnivorous fungi	cell communication, central nervous system, ganglion reflexes, neuroreceptors, retina nerve impulse, neurotransmitters, neural
1958 July p 67-72 [1094]	synapse, cytology, neuromuscular synapse how cells communicate
Nemrud Dagh, archeology, burnal site, funerary monument, Turkey, tomb of Antiochus I 1956 July p 38-44	1961 Sept p 209-220 [98]
Neolithic archeology, Stone Age hunters, organic relies peat bog	synapse, reflex arc, motor neuron, membrane potential inhibitory impulse, transmitter molecules, nerve excitation, activity at the
Jencho, Biblical archeology, 'world's oldest city' 1952 May p 20-25 1954 Apr p 76-82	neural synapse 1965 Jan p 56-66 (1001)
agricultural revolution tools slash-burn agriculture, cultural evolution.	axon, neurology, Schwann cell, axoplasm, membrane potential, perfusion technique, cell perfusion, structure of axonal tube,
Stone Age forestry and agronomy 1956 Mar p. 36-41	physiology of neural transmission, concentration gradients
Neanderthal man human evolution Shanidar cave, layer by layer, 100 000 years occupation by man 1957 Nov. p. 58-64	1966 Mar p. 74-82 (1038)
agricultural revolution, Fertile Crescent, human evolution, cultural	cardiac arrhythmia intensive care, coronary care unit, fibrillation coronary occlusion, electrocardiography, heart infarct
anthropology, 8000 B C domestication of plants and animals	
1960 Sent in 130_148 [605]	1969 July n. 10 27
Height culture, Turkes, 7000 B C 1961 Aug p 86-97	nerve conduction block, animal toxins tetrodotoxin saxitoxin poisons puffer fish, California news 1967 Aug. p. 60-71 (1969)
Anatolian plateau, Catal Hüyük 1964 Apr. p. 94-104 (620)	1968 July p 19-27 nerve conduction block, animal toxins tetrodotoxin saxifoxin poisons puffer fish, California newt 1967 Aug. p 60-71 [1080] nerve disorders, anemia brain damage, environmental toxins, blood
Anatolian plateau, Catal Hüvük 1964 Apr p 94-104 [620] obsidian trade, trace elements, Neolithic trade patterns deduced from obsidian finds	nerve conduction block, animal toxins tetrodotoxin saxitoxin poisons puffer fish, California newt 1967 Aug. p 60-71 [1080] nerve disorders, anemia brain damage, environmental toxins blood disorders kidney disorder lead poisoning 1971 Exp. p. 63-73 (1980)
Anatolian plateau, Catal Hüvük 1964 Apr. p. 94–104 [620] obsidian trade, trace elements, Neolithic trade pattern deduced from	1968 July p 19-27 nerve conduction block, animal toxins tetrodotoxin saxifoxin poisons puffer fish, California newt 1967 Aug. p 60-71 [1080] nerve disorders, anemia brain damage, environmental toxins, blood

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nerve conduction, compare, tellex are, monor neuton, membrane potential, inhibitory impolie, transmitter moderales, a firstly at the bette structure, for up circuitry, priceroscopy, nerve signals, ollamory awatern, at among techniques, Golgi stain, Siral stain ticural synapse 1985 Into p to expense nerve fibers, salamander, representation, fing, embryons, devel ipment, rife 1971 July p. 43-40 [1227] terrines therape, authorisitivity, authoriming disease, multiple scloreis, of noise libers in regeneration 1974 (A.C to 79 85 alleren, mechanismi in restout disease larger recognition 1949 July p. 16-19 1974 Jun - p. 50 nervous system, notive impulse, nervi excitation, inhibitory impulse, nerse gases, acetylch sline, acotylch slinesterace, nerse persons, estiticiaeth tiourismissi ular synapse, nourotransmitters, avetylcholine, dynamies exele, alkaloule, totins, fell al mechanoms at cell ilar level of inhibition 1943 Sept. p. 44-43 1959 Nov. p. 76-84 ply surface, end a rine system, respiration, nerve impulse musels cholinesterase inhibitions 1952 Okt p 38 contraction, whence, physiology 1900-1950 1959 Sept. p. 71-76 percentionally factor, in disautonomica 1976 Dec p 52 feedback, Control I sop, servomechanisms, flyball governor, positive nerve Impulse, nervous system, nerve excitation, whibitions impulse, feedback, negative feedback, ecological system, economic system. neuromuscular synapie, neuroteammutters, acetylcholine, ilynamica automatic centrol, feedback concept 1952 Sept. p. 43-55 of inhibition 194 Sept p 44 49 union, reflex are, motor neuron, interneuron, animal behavior, small well membrane, con patential, boological ride of potastium neuron systems as models for study 1967 May p 44-52 [1973] 1949 Aug p. 16-21 insect behave it, animal navigation, locust, insect flight, response to physiology, nervous system, endocrine system, respiration, maiele stimuli, schästoverca gregaria 1971 Aug. p. 74-81 [1231] contraction, science, physiologic 1969, 1950 1959 Sept p 71-76 fatty acids, feedback, hormony-like substances, drug therapy, squid, cephilopeds, grant axon 1951 Apr p 64 69 1971 Nov. p. 84-92 [1235] postarlandin action potential, refractory period, sodium ion potential, nodes of loocher, neural organization, nerve cells, nerve physiology, nene Ranvier, nerve membrane 1952 Nov. p. 55-65 [20] signals, reflex are, neuro motor synapse 1974 Jan. p. 38-45 [1237] acetylcholine, hormone, serotonin, synapse, em monal illness, cricket song, behavioral genetics, insect behavior neurotransmitters, central nervous watern, physiological psychology, 1974 Aug. p. 34-44 [1392] chemical mediation of nerve impulses 1957 Feb p \$6.04 becommitteen, walking, Edweard Muybridge photographs, control of giant axon, squid, sodium pump, nerve cells, 'soltage clamp' technique walking 1976 Dec. p. 72-86 [1346] 1955 Dec. p. 53-90 brain function, cyclic AMP, dopamine, endocrine system, messenger electric fishes, sodium ion potential, electroplaques, neurophysiology, molecules, neurotransmitters, L-DOPA treatment, Parkinson's synapse, acetylcholme, animal behavior, biolimmescence disease, 'second messengers', brain endocrinology 1977 Aug. p. 103-119 [1368] 1969 Oct p 115-124 cell communication, central nervous system, nerve conduction, neeting, animal migration, animal navigation, turtles, telemetry, sexual ganglion reflexes, neuroreceptors, retina, neurotransmitters, neural behavior, Chelonia mydas, green turtle, 1,400-mile journey 1965 May p. 78-86 [1010] synapse, cytology, neuromuscular synapse, how cells communicate 1961 Sept. p. 209-220 [98] net reproduction rate, demographic transition, population growth, world biological sciences, mathematics, self-reproducing machine, predation, population, zero population growth, birth rate, gross reproduction Turing machine, automata theory, mathematics in biology rate, extrapolation from world-statistics population model 1973 Mar. p. 15-23 [683] 1964 Sept. p. 148-164 facrimal gland, hypothalamus, tears, reflex, psychogenic and network analysis, nodes and branches, pipelines, powergrids, graph 1970 July p. 94-103 continuous tears 1964 Oct p. 78-86 theory, reliability analysis network hierarchies, communication technology, communication, twobacterial toxin, tetanus, botulism, paralysis, inhibitory impulse, way channels, computer-assisted instruction, information retrieval, synapse, motor neuron, Clostridium tetani, Clostridium botulinum 1968 Apr. p. 69-77 National Academy of Engineering study, 'Communications Technology for Urban Improvement', 'wired city' concept cell communication, genetic code, communication, hormonal action, 1972 Sept. p. 142-150 metabolic information 1972 Sept. p. 42-51 [1257] acetylcholine, synapse, neurotransmitters, nerve-musele synapse, network theory, communication networks, communication satellite. electronic switching, multiplexing, radio, communication, telephone chemical mediation of neuromuscular transmission 1972 Sept. p. 116-128 1977 Feb. p. 106-118 [1352] systems, television systems networks, complexity theory, switchboards, mathematics from networks nerve inhibition, central nervous system, reflex arc, neuromuscular 1978 June p. 114-124 [3013] control, muscle contraction, interneuron, motor neuron, stretch and switching systems neural organization, leeches, nerve cells, nerve physiology, nerve signals, reflex. Renshaw cell, synapse 1966 May p. 102-110 nervous system, reflex arc, neuro motor synapse nerve membrane, nerve impulse, action potential, refractory period, 1974 Jan. p. 38-48 [1287] sodium ion potential, nodes of Ranvier 1952 Nov. p. 55-65 [20] neural synapse, cell communication, central nervous system, nerve nerve-muscle synapse, acetylcholine, nerve impulse, synapse, conduction, ganglion reflexes industricularly rather and the pulse neurotransmitters, chemical mediation of neuromuscular neurotransmitters, cytology, neuroma, all 1 syrapso, how con-1977 Feb. p. 106-118 [1352] transmission 1961 Sept. p. 209-220 [98] nerve network, locust, muscle contraction, insect flight, flight control communicate neuro motor synapse, leeches, neural organization, nerve cells, nerve 1968 May p. 83-90 system, inhibitory impulse physiology, nerve signals, nervous system, reflex arc nerve physiology, leeches, neural organization, nerve cells, nerve signals, 1974 Jan. p. 38-48 [1287] nervous system, reflex arc, neuro motor synapse neurohumoral factors, hormone, hypothalamic hormone, luteinizing 1974 Jan. p. 38-48 [1287] hormone, pituitary control, thyroid-stimulating hormone, TSH acetylcholine, adrenalin, catecholamines, dopamine, drug effects, 1972 Nov. p. 24-33 [1260] 1974 June p. 58-71 [1297] neurotransmitters, noradrenaline neurology, blood-brain barrier, epilepsy, brain metabolism, nerve poisons, algal bloom, Dinoflagellata, marine ecology, acetylcholine, neurophysiology, physiology of the barrier and its reinforcement 1958 Aug. p. 92-98 poisonous tide 1956 Feb. p. 101-106 acetylcholine, acetylcholinesterase, nerve gases, citric-acid cycle, axon, nerve conduction, Schwann cell, axoplasm, membrane potential, alkaloids, toxins, lethal mechanisms at cellular level perfusion technique, cell perfusion, structure of axonal tube. 1959 Nov. p. 76-84 physiology of neural transmission, concentration gradients nerve regeneration, vision, learning, visual perception, embryonic 1966 Mar. p. 74-82 [1038] development, inborn 'hard wiring' of nerve circuitry auditory beats, brain, hearing, sound vibrations, auditory perception 1956 May p. 48-52 [1090] 1973 Oct. p. 94-102 [1282] nerve signals, brain circuitry, microscopy, nerve structure, olfactory neuromuscular control, central nervous system, reflex arc, muscle system, staining techniques, Golgi stain, Nissl stain contraction, nerve inhibition, interneuron, motor neuron, stretch 1971 July p. 48-60 [1227] 1966 May p. 102-110 reflex, Renshaw cell, synapse brain circuitry, mammalian brain, sensory systems, stimulus neuromuscular synapse, nervous system, nerve impulse, nerve excitation, localization, visual perception, superior colliculus in integration at inhibitory impulse, neurotransmitters, acetylcholine, dynamics of

1972 Dec. p. 72-82 [553]

inhibition

leeches, neural organization, nerve cells, nerve physiology, nervous system, reflex arc, neuro motor synapse 1974 Jan. p. 38-48 [1287]

1948 Sept. p. 44-49

brain function

system, reflex arc, neuro motor synapse

cell communication, central nervous system, nerve conduction,	neuroreceptors, cell communication, central nervous system, nerve
ganglion reflexes, neuroreceptors, retina, nerve impulse,	conduction, ganglion reflexes, retina, nerve impulse,
neurotransmitters, neural synapse, cytology, how cells communicate	neurotransmitters, neural synapse, cytology, neuromuscular synapse,
1961 Sept p 209–220 [98]	how cells communicate 1961 Sept p 209–220 [98]
neuronal networks, creativity, neurophysiology, imagination, cerebral	neurosecretor, system, amphibian, metamorphosis, frog, thyroxin, pituitary gland, hypothalamus, hormone, chemistry of amphibian
cortex, physiology of imagination 1958 Sept p 135-146 [65]	
brain, brain circuitry, cerebellar cortex, Purkinje cells, mossy fibers	metamorphosis 1966 May p 76-88 [1042] neurosis, learning, stress, psychotherapy, experimental neuroses in cats
1975 Jan p 56–71 [1312]	1950 Mar p 38–43 [443]
neuronal response, contour perception, contrast perception, Mach bands,	conditioned reflex, neurosis, operant conditioning, Pavlov, psychology,
optical illusion, visual perception, Craik-O'Brien effect 1972 June p 90-101 [543]	thyroidectomy, stress, emotional behavior, conditioned reflex is
neuronal specificity, brain circuitry, embryonic development, nerve cells,	shown to be a neurosis 1954 Jan p 48–57 [418]
visual cortex, Xenopus laevis 1973 Feb p 26–35 [1265]	conditioned reflex, operant conditioning, Pavlov, psychology,
neurones, glial cells, learning theory, memory, RNA, brain, molecular	thyroidectomy, stress, emotional behavior, neurosis, conditioned
theory of memory 1961 Dec p 62–70 [134]	reflex is shown to be a neurosis 1954 Jan p 48-57 [418]
aplysia, behavior, learning, memory, synapse, heterosynaptic	schizophrenia, emotional illness, psychoanalysis, psychiatry, psychosis,
facilitation, memory and learning at nerve-cell level	double bind, taxonomy of emotional illness, family therapy
1970 July p 57–70 [1182]	1962 Aug p 65–74 [468]
neuropharmacology, anesthesia, pain, cocaine, procaine, surgery, medical	experimental in rats 1950 Dec p 32
research, pharmacology, psychiatry, research in pain suppression	neurospora, mutation, natural selection, gene expression, Mendelian
1957 Jan p 70-82	inheritance, genetic disease, tryptophan-macin relation, one gene- one enzyme hypothesis, selection for defect 1948 Sept p 30–39 [1]
neurophysiology, blood-brain barrier, epilepsy, brain metabolism,	neurotransmitters, nervous system, nerve impulse, nerve excitation,
neurology, physiology of the barrier and its reinforcement 1956 Feb p 101106	inhibitory impulse, neuromuscular synapse, acetylcholine, dynamics
insect metamorphosis, silkworm, insect behavior, cocoon, cocoon	of inhibition 1948 Sept p 44-49
record of silkworm spinning movements 1956 Apr p 131–140	acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional
brain, learning, neuropsychology, pleasure centers, hypothalamus,	illness, central nervous system, physiological psychology, chemical
electrode stimulation of pleasure centers in rat brain	mediation of nerve impulses 1957 Feb p 86-94
1956 Oct p 105–116 [30]	cell communication, central nervous system, nerve conduction,
obesity, human nutrition, hunger, appetite, physiological mechanisms	ganglion reflexes, neuroreceptors, retina, nerve impulse, neural
of overeating 1956 Nov p 108-116	synapse, cytology, neuromuscular synapse, how cells communicate
central nervous system, medulla, reticular formation, brain, perception,	1961 Sept p 209–220 [98]
motor reflex, attention and orienting mechanism in brain	animal behavior, brain stimulation, hormone, drive activation by
1957 May p 54–60 [66]	injection of chemicals into rat brain 1964 June p 60–68 [485] brain function, carbohydrate, serotonin, human nutrition, tryptophan,
auxins, serotonin, LSD, comparative physiology, physiological function of serotonin 1957 Dec p 52-56	feedback 1974 Feb p 84–91 [1291]
brain, cerebellum, central nervous system, cerebrum cerebral-	acetylcholine, adrenalin, catecholamines, dopamine, drug effects, nerve
cerebellar coordination 1958 Aug p 84–90 [38]	physiology, noradrenaline 1974 June p 58-71 [1297]
creativity, imagination, neuronal networks, cerebral cortex, physiology	acetylcholine, nerve impulse, synapse, nerve-muscle synapse, chemical
of imagination 1958 Sept p 135–146 [65]	mediation of neuromuscular transmission
electric fishes, sodium ion potential, electroplaques, synapse,	1977 Feb p 106-118 [1352]
acetylcholine, animal behavior, nerve impulse, bioluminescence	brain function, cyclic AMP, dopamine, endocrine system, messenger
1960 Oct p 115-124	molecules, nervous system, L-DOPA treatment, Parkinson's disease,
animal behavior, mollusks, central nervous system 1971 Feb p 68-75 [1212]	'second messengers', brain endocrinology 1977 Aug p 108-119 [1368]
fortification illusions, migraine headaches, optical illusion	neuston, carbon dioxide, marine life, microlayer oceanography, ocean
1971 May p 88–96 [536]	surface, rainwater composition, surfactant 1974 May p 62–77 [913]
binocular vision, depth perception, eye, optic chiasm, stereopsis, visual	neutralization test, virology, complement-fixation test, hemagglutination
cortex 1972 Aug p 84–95 [1255]	test 1955 Mar p 60-70
animal behavior, escape response, toad, visual perception, visually	neutrino, elementary particles, electron, proton, particle counters
guided behavior 1974 Mar p 34-42 [1293]	neutron, positron, mesons, photon, particle accelerator, nuclear
brain circuitry, eye movement, pons, visual cortex, visual processing,	binding force, 'Meson Song' 1948 June p 26–39
visual cells in pons 1976 Nov p 90-98 eye motion-perception system, moving-target perception, visual	elementary particles, neutron decay, alpha decay, beta decay, setting trap for detection of theoretical particle 1956 Jan p 58-68
perception system, moving-target perception, visual perception 1977 Jan p 60-73 [575]	trap for detection of theoretical particle 1956 Jan p 58–68 astrophysics, high-energy physics neutrino astronomy, neutrino
transducers in the skin 1959 Nov p 91	'telescope' 1962 Aug p 90–98 [283]
neuropsychology, brain, learning, neurophysiology, pleasure centers.	beta decay, particle accelerator, muon neutrino, a particle interaction,
hypothalamus, electrode stimulation of pleasure centers in rat brain	'weak' force, experiment demonstrating existence of muon neutrino
1956 Oct n 105–116 (30)	1963 Mar p. 60-70 (324)
electroencephalography, perceptual isolation, hallucination, boredom,	cosmic radiation neutrinos solar neutrinos, intermediate vector boson
sensory deprivation, effect of exposure to monotonous environment	scintillation counter boson, detection of natural neutrinos
kinesthetic memory, spatial orientation, visual perception, perception	1966 Feb p 40-48 cosmic radiation, solar radiation, solar neutrino detector,
of the upright 1950 Feb in 50.56 [410]	thermonuclear reaction, neutrino detection experiment and
motion perception optical illusion, relative vs absolute motion	
1050 1010 = 56 60 (400)	solar corona solar energy, solar magnetism, Sun, sunspots
pain, perception, psychology, cultural influence on pain perception	1975 Sept p 42–50
attention mechanism, speech perception, hearing cochlea, phonetics,	captured, 1953 Nov p 50
1067 Apr = 142 161 [467]	detection and de
human anatomy, sensors perception eve car Decorates 17th a	detection proposal 1965 Feb p 53
approach to human perception mechanistic hypothesis	solar neutrinos mucara
1064 16-1 - 100 114 (104)	neutrino astronomy, astrophysics neutrino, high-energy physics neutrino
tests but he will be settled sensory organs ommatidia cytology.	
1961 Sept p 222-238 [99]	mediant reta decity, pupple chamber experiments, both
	physics hadrons particle accelerator, positron 1973 Aug. p. 30–38

1948 Sept p 44-49

nerve conduction, compen reflectate, in our printer a correlegion potential, inhibitory impulse transmitter in deciles, a tissis at ifnerve stelleture, Franciscultiv mosto copy, resve lignals officiery vectorie sta hir z trebnijett., Golgestain, Nicolstain neural ways-1965 Jan p 3% et [1001] nerve fibers, salamander, regeneration, frog emberous, development, not-1971 July p 42 (0 [1227] nervous disease, auto cultivity, a its immune diea e, multipleschmis, of nerve libers in regeneration 1958 that p 23 84 all they meet anim, in recount theate farget freezentnen 1949 July p 15-19 1974 Jacp 50 mersions system, norse impolio, norse excitition inhibitory impole, nerse gases, acers h h dine, acers h differenterate, norse parama città a id trateser in utar votespar, troutoteansmitters, a.etyl, holine, dynamia excle, alkaloule forms lethal mechanisms at cellular level 1944 Sept p 41-49 1959 Nov. p. 76 81 physiology, end krine system, respiration, nerve impulse, moide cholinesters embiliators 1997 (XI p. 15 nerve-growth factor, in disautorionna contriction science, physiology 1900-1950 1959 Sept p 71-76 1971 Dec p 52 perse impulse, nervous system, nerve excitation, inhibitory impulse feedback control loop, wryon rehamsms, flyball governor, posine fredback, negative feedback, ecological system, economic system neuromuscular esuapie, neurotrarimitters a etelebiliter, den mico automatic control, feedback concept of inhibition in 1952 Sept p 42-55 1945 Sept p 41 4) vis in, reflex are, motor neuron, interneuron, animal behavior, small cell membrane, i'm potential, b. il speal rol-of potamini neuron systems as models for study 1967 May p 44-52 [1073] 1917 Aug p 16 21 ment behavior, animal navization, locust, insect flight, response to physiology, nervous system, end wine system respiration mustle stimuli, sel intolerca pregana 1971 Aug p 74-81 [1231] contraction, science, physiology 1980-1986 1950 Sept. p. 71-76 fatty acids, feedback, florm me-like substances, drug therapy, sand, explisiopeds, grant axin 1951 Apr p 64 (0 printaglandin 1971 Nov. p 84-92 [1235] action potential refractors period, sodium i in potential, nodes of leaches, neutal organization, nerve cells, nerve physiology, nerve Ranvier, nerve membrane 1992 Nov p 55 65 [20] nignals, reflex arc, neuro motor synapse 1974 Jan p 38-48 [1287] acetyleboline, horm me, scrotonin, syn spie, em iti mal illness, encket some, behavioral genetics, insect behavior neurotransmitters, central nervous is stem, plis is slow, all psychologis 1974 Aug. p 34-44 [1302] chemical mediation of nerve impulses 1957 Ich p 56.91 locomotion, walking, I diseard Maybridge photographs, control of giant axon, squid, sodium pump, nerve cells, 'soltisee clamp' technique walking 1976 Dec. p 72-86 [1346] 1958 Dec p 83 90 brain function, cyclic AMP, dopamine, endocrine system, messenger electric fisher sodium ion potential, electroplaques, neurophysiologis, molecules, neurotransmitters, L-DOPA treatment, Parkinson's synapse, acetylcholine, animal behavior, bioluminescence disease, 'second messengers', brain endocrinology 1960 Oct p 115-124 1977 Aug. p 108-119 [1368] cell communication, central nervous system, nerve conduction, nesting, animal migration, animal navigation, turiles, telemetry, sexual ganglion reflexes, neuroreceptors, retina, neurotransmitters, neural behavior, Chelonia mydas, green turtle, 1,400-mile journey synapse, cytology, neuromuscular synapse, how cells communicate 1965 May p 78-86 [1010] 1961 Sept p 209-220 [98] net reproduction rate, demographic transition, population growth, world biological wiences, mathematics, self-reproducing machine, predation, population, zero population growth, birth rate, gross reproduction Turing machine, automata theory, mathematics in biology rate, extrapolation from world-statistics population model 1973 Mar. p. 15-23 [683] 1964 Sept. p. 148-164 lacrimal gland, hypothalamus, tears, reflex, psychogenic and network analysis, nodes and branches, pipelines, powergrids, graph 1970 July p 94-103 continuous tears 1964 Oct p 78 86 theory, reliability analysis bacterial toxin, tetanus, botulism, paralysis, inhibitory impulse, network hierarchies, communication technology, communication, twoway channels, computer-assisted instruction, information retneral, synapse, motor neuron. Clostridium tetani, Clostridium botulinum 1968 Apr. p 69-77 National Academy of Engineering study, 'Communications cell communication, genetic code, communication, hormonal action, Technology for Urban Improvement', 'wired city' concept 1972 Sept. p 142-150 metabolic information 1972 Sept p 42-51 [1257] network theory, communication networks, communication satellite, acetylcholine, synapse, neurotransmitters, nerve-muscle synapse, chemical mediation of neuromuscular transmission electronic switching, multiplexing, radio, communication, telephone 1972 Sept p 116-128 1977 Feb. p. 106-118 [1352] systems, television systems networks, complexity theory, switchboards, mathematics from networks nerve inhibition, central nervous system, reflex are, neuromuscular 1978 June p 114-124 [3013] control, muscle contraction, interneuron, motor neuron, stretch and switching systems neural organization, leeches, nerve cells, nerve physiology, nerve signals. reflex, Renshaw cell, synapse 1966 May p 102-110 nerse membrane, nerve impulse, action potential, refractory period, nervous system, reflex arc, neuro motor synapse 1974 Jan p 38-48 [1287] sodium ion potential, nodes of Ranvier 1952 Nov. p. 55-65 [20] neural synapse, cell communication, central nervous system, nerve nerve-muscle synapse, acetylcholine, nerve impulse, synapse, conduction, ganglion reflexes, neuroreceptors, retina, nerve impulse, neurotransmitters, chemical mediation of neuromuscular 1977 Feb. p. 106-118 [1352] neurotransmitters, cytology, neuromuscular synapse, how cells transmission 1961 Sept p 209-220 [98] nerve network, locust, muscle contraction, insect flight, flight control communicate neuro motor synapse, leeches, neural organization, nerve cells, nerve system, inhibitory impulse 1968 May p. 83-90 physiology, nerve signals, nervous system, reflex arc nerve physiology, leeches, neural organization, nerve cells, nerve signals, 1974 Jan p 38-48 [1287] nervous system, reflex arc, neuro motor synapse neurohumoral factors, hormone, hypothalamic hormone, luteinizing 1974 Jan. p. 38-48 [1287] hormone, pituitary control, thyroid-stimulating hormone, TSH acetylcholine, adrenalin, catecholamines, dopamine, drug effects, 1972 Nov p 24-33 [1260] 1974 June p. 58-71 [1297] neurotransmitters, noradrenaline nerve poisons, algal bloom, Dinoflagellata, marine ecology, acetylcholine, neurology, blood-brain barrier, epilepsy, brain metabolism. neurophysiology, physiology of the barrier and its reinforcement 1958 Aug. p 92-98 poisonous tide 1956 Feb p 101-106 acetylcholine, acetylcholinesterase, nerve gases, citric-acid cycle, axon, nerve conduction, Schwann cell, axoplasm, membrane potential, alkaloids, toxins, lethal mechanisms at cellular level perfusion technique, cell perfusion, structure of axonal tube, 1959 Nov. p. 76-84 physiology of neural transmission, concentration gradients nerve regeneration, vision, learning, visual perception, embryonic 1966 Mar p 74-82 [1038] development, inborn 'hard wiring' of nerve circuitry auditory beats, brain, hearing, sound vibrations, auditory perception 1956 May p. 48-52 [1090] 1973 Oct p 94-102 [1282] nerve signals, brain circuitry, microscopy, nerve structure, olfactory neuromuscular control, central nervous system, reflex arc. muscle system, staining techniques, Golgi stain, Nissl stain contraction, nerve inhibition, interneuron, motor neuron, stretch 1971 July p. 48-60 [1227] 1966 May p 102-110 reflex, Renshaw cell, synapse brain circuitry, mammalian brain, sensory systems, stimulus neuromuscular synapse, nervous system, nerve impulse, nerve excitation, localization, visual perception, superior colliculus in integration at inhibitory impulse, neurotransmitters, acetylcholine, dynamics of 1972 Dec. p. 72-82 [553]

inhibition

brain function

leeches, neural organization, nerve cells, nerve physiology, nervous

system, reflex arc, neuro motor synapse

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30,000-year-old artifact	1960 Sept p 100	nitrogen fertilizer, energy cycle, nutrient cycle, soil structure, food and	0.0
Mississippi Valley solar observatory	1964 Sept p 84	agriculture, food chain 1976 Sept p 74	-86
Mexican and Canadian sites	1967 June p 57	nitrogen fixation, heat, chemistry, regenerative furnace, temperature limits, high temperatures chemistry 1954 Sept p 109-	110
Marmes man oldest North American(7)	1968 June p 44	limits, high temperatures chemistry 1954 Sept p 109- bacteria, nitrogen cycle, blue-green algae, Haber process, biosphere,	117
13,600-year-old birovac	1968 Oct p 61 1972 Jan p 51	nitrate, legumes, eutrophication 1970 Sept p 136–146 [11	94]
first settlers	1972 Jan p 31 1973 May p 44	forestry, ecosystem, resource management, runoff, erosion, watershe	ď,
role of man in large-mammal extinctions see also Amerindian, Aztec civilization, Folsom		deforestation, deforestation experiment 1970 Oct p 92-101 [12	.02]
New York, local government, cities, metropolitan r	egion, central city,	legumes, agronomy, soybean products, plant protein	
suburbs, Northeast Corridor, regional planni	ing	1974 Feb p 14	-21
	1965 Sept p 134-148	ammonia manufacture, biological nitrogen fixation, Haber process,	70
New Zealand flightless birds, moas, extinction, ev-	olution, hunting	metallo-organic process 1974 Oct p 64 algae, bacteria, legumes, nitrogenase, genetic engineering, Haber	-70
	1954 Feb p 84-90	process, rhizobium, legumes, symbiosis, rutrogenase, biological	
Newcomen engine, steam engine, mine drainage, Watt, pumps, Industrial Revolution, origins	of steam engine	nitrogen fixation 1977 Mar p 68	-81
Watt, pumps, industrial Revolution, origins	1964 Jan p 98–107	nitrogen gas, product of mamalian metabolism 1968 July p	50
Newfoundland, Viking site	1964 Jan p 56	nitrogen mustard, cancer therapy, radiation damage, carcinogenesis,	
newspapers, content analysis, military secrecy, Co	ongressional	mutation, nuclear medicine, chemical imitation of radiation injury	
investigation, 'Condon case', content analyst	is of newspaper coverage	1960 Jan p 99-	108
of political attacks on E. U. Condon	1949 Feb p 16-21	nitrogenase, algae, bacteria, legumes, nitrogen fixation, nitrogenase, genetic engineering, Haber process, rhizobium, legumes, symbiosi	c
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remon, calculas, medianes, optios, includes	1955 Dec p 73-80	nitrogen fixation 1977 Mar p 68	-81
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insight into private life	1963 Sept p 88	numeric displays 1973 June p 64	~/3
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Newton body, rheology, flow of matter, Hooke b	959 Dec p 122–138 [268]	Nobel prizes, science history, 1949 awards in physics, to Hideki	-10
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	1958 Feb p 89–95	medicine, to Walter R Hess, Antonio Moniz, for peace, to John	
Nichol prism, animal navigation, polarized light,	, dichroic material,	Boyd-Orr 1949 Dec p 11	
horseshoe crab	1955 July p 88–94	education, university education, sociology, scientific careers, sociolo of the Nobel prizes 1967 Nov p 25	
nickel plating, by chemical bath nidation, contraception, birth control, reproduct	1953 May p 56	of the Nobel prizes 1967 Nov p 25 in physics, to Murray Gell-mann, in chemistry, to D H R. Baron,	-33
fertilization	1954 Apr p 31-34	Odd Hassel, in physiology and medicine, to Max Delbruck, Alfred	eđ
fetus as transplant, histocompatability, immu		D Hershey, Salvador Luna, in economics, to Ragnar Frisch, Jan	
immunological privilege, reproduction, troj	phoblast, placenta	Tinbergen 1969 Dec p 48	-50
	1974 Apr p 36-46	in physics, to P M S Blackett, in chemistry, to Arne Tiselius, in	~
Nigeria, industrial technology, economic develo		Physiology and medicine, to Paul H Muller 1948 Dec p in physics, to Cecil F Powell, in chemistry, to Kurt Adler, O P H	20
transfer, tribal politics economic developn region	1963 Sept p 168–184	Diels, in physiology and medicine, to Phillip S Hench, Edward (-
night blindness, electroretinography, vitamin A		Kendall, Tadeus Reichstein 1950 Dec p	
rhodopsin bright-light exposure, retinitis p		in physics, to John D Cockroft, E.T.S Walton, in chemistry, to	
	1966 Oct p 78-84 [1053]	Edwin M McMillan, Glenn T Seaborg, in physiology and medici	
mightglow, Earth aurora airglow, corpuscular s aurora and airglow	1955 Sept p 140-150	to Max Theiler 1951 Dec p in physics, to Felix Bloch, Edward M Purcell, in chemistry, to AJ	
Nile crocodile, animal behavior, crocodile, pare		Martin, R L M Synge, in physiology and medicine, to Selman A	
part of the second part of the s	1976 Apr p 114-124	Waksman 1952 Jan p	
Nile prehistory, climate, cultural evolution, hur	iter-gatherer societies,	in physics, to Fritz Zernike, in chemistry, to Herrmann Standinger	,
Paleolithic settlements, stone tools	1976 Aug p 30-38	in physiology and medicine, to Hans A Krebs Fritz A Lipmann	
Nile valley, Fgyptian civilization Sakkara, burn the first pharaohs	1957 July p 106-116	in physics, to Max Born, Walther Bothke, in chemistry, to Linus C	48
niobium allovs, electromagnetism magnetism	superconductors, proton-	Pauling in physiology and medicine, to John F Enders, Frederic	-1
beam focusing, generation of intense magi		C Robbins, Thomas H Weller 1954 Dec p	
materials for a control of the contr	1967 Mar p 114-123	in physics, to Polykarp Kush, Willis E. Lamb, in chemistry, to	
mitrate, breteria nitrogen cycle, nitrogen fixati Haber process biosphere, legumes eutrop	on, blue-green algae,	Vincent du Vigneaud, in physiology and medicine, to AHT	
	970 Sept p 136–146 [1194]	Theorett 1955 Dec. p in physics to John Bardeen, Walter H Brattain, William Shockley,	46
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nitrogen cycle legumes	1953 Mar p 38-42	physiology and medicine, to Andre F Cournand, Werner	
nitrogen, biological nitrogen fixation, ammoni		Forssmann, Dickinson W Richards 1956 Dec p	52
nitrogen evele, legumes atmosphere, escape velocity, photosynthesis	1953 Mar p 38-42	in physics, to Tsung-Dao Lee, Chen Ning Yang, in chemistry, to	
erystallization oxygen origin and evoluti	on of Earth's atmosphere	Alexander R Todd, in physiology and medicine, to Daniel Boyel	
	1953 Aug p 82-86 [824]	age of greatest productivity 1957 Dec p	46
curbon dioxide laser infrared radiation ga dioxide laser		in physics to Pavel Cerenkov, Ilya Frank, Igor J. Tamm, in chemist	try.
breeder reactor use of heavy nitrogen in rea	1968 Aug p 22-33 actor 1956 Feb p 52	to Frederic Sanger, in physiology and medicine, to George W	-
te ictor fixed nitrogen	1956 Dec. n. 54	Beadle, Edward L. Tatum, Joshua Lederberg 1958 Dec. p in physics, to Owen Chamberlain, Emilio G Segré, in chemistry, to	52
nitrogen er de, nitrogen biological nitrogen fi	vation ammonia, nitrifiers	Jaroslav Heyrovsky, in physiology and medicine, to Arthur	
tienittiiets legumes	1953 Mar n 38-42	Nomberg, Severo Ochoa 1950 Dec. 5	78
nurnic legumes entrophication	1970 Sent n. 136-146 (1104)	in physics, to Donald A Glazer, in chemistry to Willard F Libb.	
I rest communities lichens ecolor's algae	loog chain steeren	physiology and medicine to Mac Farlane Burnet, Peter B Meda	W 37
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particle accelerator, National Accelerator Labo synchrotron	ratory, proton beam,
neutrino interactions, electromagnetic force, partic	1074 17-1 70 00
theory, 'weak' force, neutral-weak-current int	cle interaction, gauge
y, see rockey now and weak-current mil	1974 Dec p 108-119
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neutron, elementary particles, electron, proton, pa	rticle counters
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binding force, 'Meson Song'	1948 June n 26 20
hadron, neutron diffraction, the neutron as nucl of physics	ear particle and as tool
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electromagnetic force, nuclear forces, proton, mo scattering, high-energy physics, fundamental i	sons, particle
the nucleus together?	1953 Sept p 58-63
photographic emulsion, particle tracks, cosmic ra	adiation proton
electron, characteristic 'signatures' of particles	1956 May n 40 47
crystal structure, radiation, nuclear fission, solid	state physics, effects
of radiation on solids 19	56 Aug p 76-84 12451
atomic nucleus, shell model, optical model, high-	energy physics, liquid-
drop model, charge exchange, spin-orbit force, proton, structure of the nucleus	resonance 'particles',
nuclear fission, heavy nuclei, liquid-drop model,	1959 Jan p 75–82
model, fission fragments	1965 Aug p 49–59
atoms, elementary particles, electron, proton, ma	tter, structure of
'ordinary matter'	1967 May n 126-134
alpha clustering, alpha particles, atomic nucleus,	elementary particles
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asymmetrical decay magnetism un-explained	1957 Sept p 56
photon, weak as well as strong interaction	1958 Feb p 48 1965 Feb p 51
wave-particle duality in gravitational field	1976 Jan p 61
neutron activation, microanalysis, trace elements, ra	dionuclides, decay
properties	1967 Apr p 68-82
sensitive detector	1952 Oct p 40
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· · · · · · · · · · · · · · · · · · ·	3 Aug p 23-29 [219]
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ribosome, structure of ribosome	1976 Oct p 44-54
neutron bomb, arms race, atomic weapons, tactical n	uclear weapons, US
decision to develop and deploy enhanced radiat	May p 44–51 [3007]
finas congressional enthusiasts	1961 Aug p 60
neutron cross sections, atomic nucleus, nuclear struct	ure, 'model atom',
'cloudy crystal ball'	1955 Dec p 84–91
neutron decay, neutrino, elementary particles, alpha o	lecay, beta decay,
setting trap for detection of theoretical particle neutron diffraction, neutron, hadron, the neutron as n	uclear particle and
as tool of physics	1951 Oct p 44-53
fission reactor, neutron beam, monochromator, neu	itron flux, reactor as
research instrument 1953	Aug p 23-29 [219]
neutron-electron 'atom', temporary bound species neutron flux, fission reactor, neutron beam, monochro	1969 Dec p 54
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neutron radiography, thermal neutrons, fission reactor	, nondestructive
terting neutrons as inspection tool 1962 No	ov p 107–119 [287]
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'quasi particles' model of liquid helium 1960 No	1950 Jan p 29
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Cak Mahula Yaray astronomy, sychiou	ron radiation,
Scorpius, X-ray astronomy by rocket-borne instru	1964 June p 36–45
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to a base departs granatational collapse, angular i	
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pulsar, white dwarfs, gravitational collapse, angular i 'lighthouse' model proposed Crab Nebula, pulsar, radio source, stellar evolution,	gravnational 1971 Jan p 48–60 stars white
pulsar, white dwarfs, gravitational collapse, angular in the lighthouse model proposed. Crab Nebula, pulsar, radio source, stellar evolution, collapse, angular momentum gravitational collapse pulsar, stellar evolution solid	stars white
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Bering land bridge, MacKenzie river, humai	n migration 'How man
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Folsom man, stone tools, Cochise culture Pine Lawn Valley, Cochise culture, Mogollo.	1951 Feb p 15-19
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Peru, photogrammetry, pre-Inca cities mapp	ed by aerial photograph)
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mound builders, agricultural revolution, stati Mississippian culture, pre-Columbian Mis	stical seriation,
urban revolution	1952 Mar p 22-21
Peru, Vıru valley	1954 Aug. p 28-34
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Amerindian, Hopewell cult, burial mounds climate, Peru Current, Inca civilization, enviro	nmental influences on
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Onion Portage site, Eskimo Bering land bridge h	uman micr HOD
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Maya cermonial center, stelae cult British Hondur	Onandaga tribe I Feb. p. 32–42 [65 ^e] av. I ubaantun 1972 May p. 82-91
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Maya cermonial center, stelae cult. British Hondur Pusilha sites Amerindian burial mounds. Cahokia. Mississippia 1975 Amerindian burial mounds. Labrador. 16 Maya civilization. 19	Onindinga tribe I Feb p 32-42 [65%] as I ubinintun 1972 May p 82-91 n culture Aug p 92-101 [6%] 176 Nov. p 122 129 77 Mar p 116 133 1919 May p 27
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30,000-year-old artifact	1960 Sept. p. 100	nitrogen fertilizer, energy cycle, nutrient cycle, soil s	structure, food and 1976 Sept. p. 74–86
Mississippi Valley solar observatory	1964 Sept. p. 84	agriculture, food chain nitrogen fixation, heat, chemistry, regenerative furna	
Mexican and Canadian sites	1967 June p. 57 1968 June p. 44	limits, high temperatures: chemistry	1954 Sept. p. 109-119
Marmes man oldest North American(?)	1968 Oct. p. 61	bacteria, nitrogen cycle, blue-green algae, Haber I	
13,600-year-old birovac first settlers	1972 Jan. p. 51	nitrate, legumes, eutrophication 1970 S	ept. p. 136–146 [1194]
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lew York, local goverment, cities, metropolitan reg	ion, central city,	legumes, agronomy, soybean products, plant prot	
suburbs, Northeast Corridor, regional planning	3	Listenial siteman fivotic	1974 Feb. p. 14-21
	1965 Sept. p. 134-148	ammonia manufacture, biological nitrogen fixatio metallo-organic process	1974 Oct. p. 64–70
lew Zealand flightless birds, moas, extinction, evol-	ution, hunting 1954 Feb. p. 84-90	algae, bacteria, legumes, nitrogenase, genetic engi	
Newcomen engine, steam engine, mine drainage, te		process, rhizobium, legumes, symbiosis, nitroge	enase, biological
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Newfoundland, Viking site	1964 Jan. p. 56	nitrogen mustard, cancer therapy, radiation damage	, carcinogenesis,
newspapers, content analysis, military secrecy, Con	gressional	mutation, nuclear medicine, chemical imitation	of radiation injury
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of political attacks on E. U. Condon	1949 Feb. p. 16-21	genetic engineering, Haber process, rhizobium,	legimes symbiosis
newt, regeneration, cell differentiation, cockroach, experiments, embryonic development, biologic	cilioryo-grait	biological nitrogen fixation	1977 Mar. p. 68-81
19°	77 July p. 66–81 [1363]	algae, bacteria, legumes, nitrogen fixation, genetic	
Newton, calculus, mechanics, optics, life and work	of Isaac Newton	process, rhizobium, legumes, symbiosis, nitroge	enase, biological
,,, <u>-</u> , <u>-</u> ,	1955 Dec. p. 73-80	nitrogen fixation	1977 Mar. p. 68-8
as sleuth	1958 Sept. p. 96	Nixie tubes, integrated circuits, light-emitting diode	
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nuclear fuel cycle, plutomum separation, fission products	, fission reactor,	magnetic field, plasma instability about	,
nuclear fusion, ball lightning, gas plasma, ionization, Kar	57 Tules C2 C2	magnetic field, plasma instability, thermon reactor, magnetic bottle, anomalous diffi	ision, leakage of plasma
1963	Mar p 106-116	fission reactor, energy demand, alcotton and	1967 July p 7
by laser	1957 Feb p 60 1973 Mar p 45	fission reactor, energy demand, electric pow economics, history and prospects of nucl	ear power in US
by electron beam	1073 Tules - 40	thermal pollution, industrial analysis	1968 Feb p 2
nuclear magnetic resonance, magnetic resonance, spectros	conv	thermal pollution, industrial cooling, water cooling towers, waste heat	
magnetometer, molecular structure, large molecule sp	ectroscopy	calefaction, Connecticut River, fission react	1969 Mar p 18–27 [1
molecular beam electron d	p 58–66 [233]	industrial cooling, fisheries, ecology, fish	erisis
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radiation, coherent radiation, gas molecules, Stern-Gexperiment	erlach	breeder reactor, fast neutron reactor, uranu	m cycle, thorium cycle
nuclear medicine, environmental pollution, ionizing radiat	5 May p 58–74	liquid-metal reactor, fission reactor, energ	y demand
background radiation, atomic bomb test, introduction	ion, i to single tenin		1970 Nov p 13-21 [3
tissue on ionizing radiation 1959	Sept p 74-83	recycling, materials, fusion reactor, fusion to	rch, energy
atomic bomb test, ionizing radiation, isotopes, fallout, e	nvironmental	transformation, plasma containment, mag	1971 Feb p 50-64[3
pollution, circulation of radioisotopes 1959	Sept n 84-93	fusion reactor, laser-pulse fusion, plasma phy	
atomic bomb test, radiation damage, ionizing radiation.	leukemia.	energy transformation, energy demand, fuel-	conversion efficiency
immune response, fallout, radiation damage, whole-be	ody irradiation	power, prime movers, steam turbines, mag	
1959 S	ept p 117-137	turbine, internal combustion engine, fuel co	ell, solar cells, power,
cancer therapy, isotopes, X-ray, radiotherapy, ionizing radosimetry, roentgenology, radiation use in medicine	idiation,	comparative efficiencies of energy transform	mation pathways in
	mt = 164 176		71 Sept p 148-160 [6]
cancer therapy, radiation damage, nitrogen mustard, car	ept p 164–176	fusion reactor, plasma confinement, Tokomal	, magnetic bottle 1972 July p 65-
mutation, chemical imitation of radiation injury	inogenesis,	energy conservation, fossil fuel, solar energy,	
1960	Jan p 99-108	policy of U S	1974 Jan p 20–29 [65
mutation, radiation damage, high-energy radiation, X-ra	y, no	fusion reactor, laser implosion, nuclear power,	thermonuclear reaction
threshhold to biological damage by radiation	•	plasma confinement	1974 June p 24-
1960 Apr 1	142153 [71]	fusion reactor, laser implosion, nuclear power,	thermonuclear reaction
nuclear membrane, cell membrane, electron microscopy, en	doplasmic	plasma confinement	1974 June p 24-
reticulum, myelin sheath, mitochondria, electron micro		CANDU reactor, natural reactor, heavy-water	1975 Oct p 17-
of membranes in cell 1962 Apr nuclear nonproliferation treaty, India as atomic power, 'nuc	p 64-72 [151]	CANDU system	
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1975	Nov p 25-35	France	1977 Mar p 20-3
US-USSR draft	Nov p 25–35 967 Oct p 48	France environmental pollution fission reactor public	health, radioactive
US-USSR draft 19 UN Assembly approval 19	Nov p 25–35 967 Oct p 48 968 July p 48	France environmental pollution, fission reactor, public waste disposal, underground storage	health, radioactive 977 June p 21-31 [36]
US-USSR draft UN Assembly approval vertical proliferation 19	Nov p 25–35 967 Oct p 48 968 July p 48 75 Aug p 46	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui	health, radioactive 977 June p 21-31 [36- conium fuel cycle
US-USSR draft UN Assembly approval vertical proliferation 19 nuclear physics, atomic nucleus, high-energy physics, particl	Nov p 25–35 967 Oct p 48 968 July p 48 75 Aug p 46 e-scattering	France environmental pollution, fission reactor, public waste disposal, underground storage atomic-weapon proliferation, arms control, plus	health, radioactive 977 June p 21-31 [36- conjum fuel cycle feration of atomic 78 Apr. p 45-57 [3004]
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US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy 1956 July process assessment, capital cost, energy economics, competitive fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 Annuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous reactor, reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 1955 A'atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the Internations for peace', nuclear fuel, fuel element fabrication, urangeneous chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 25-scattering 25 55–68 [217] 26 versity 26 July p 30–43 27 with fossil 27 July p 30–43 28 veriched 29 pp 43–50 29 fission 20 pec p 33–39 29 pp 31–35 29 pp 31–35 29 pp 31–35 20 pp 31–	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plut breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels fusion reactor, fusion reactor technology J S utilities' orders increase pumped-storage plant ituation in U S lants in U S	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-10] 1977 June p 21-31 [36-10] 1948 Sept p 21 1948 Nov p 2-1950 Aug p 21 1953 June p 41 1953 June p 42 1955 Apr p 44 1955 Apr p 44 1955 Mar p 48 1956 Apr p 61 1956 Oct p 67 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Aug p 50 1958 Oct p 81 1960 Nov p 100 1967 July p 52 1971 June p 54 1971 June p 54 1971 June p 54
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy 1956 July process assessment, capital cost, energy economics, competitive fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 Anniclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous reactor, reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 1955 A' atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the Internations for peace', nuclear fuel, fuel element fabrication, urangeneous chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva for peace', fission reactor, breeder reactor, breeder reactor, Geneva for peace', fission reactor, breeder reactor, geneva for power fission reactor, magnetohydrodynamics, plasma containment effect, thermonuclear reaction, thermonuclear energy for power fission reactor, breeder reactor, energy economics atomic pofficial process for magnetic bottle, plasma confinement, deuternice power fission reactor, magnetic bottle, plasma confinement, deuterniced for the process of the power for magnetic bottle, plasma confinement, deuterniced for the process of	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 25-scattering 25 55–68 [217] 26 versity 26 July p 30–43 27 with fossil 26 July p 43–50 26 July p 43–50 26 July p 62–67 26 July p 62–67 27 July p 31–35 28 July p 62–67 28 July p 62–67 29 July p 62–67 29 July p 62–67 20	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels fusion reactor, fusion reactor technology U S utilities' orders increase pumped-storage plant ituation in U S clants in U S atural reactor, CANDU reactor	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-1 tonium fuel cycle feration of atomic 78 Apr p 45-57 [3004 1948 Nov p 2- 1950 Aug p 21 1953 June p 41 1953 Dec p 42 1953 June p 44 1955 Apr p 44 1955 Apr p 44 1955 Apr p 48 1956 Apr p 61 1956 Apr p 61 1956 Oct p 63 1957 May p 62 1957 Aug p 58 1958 Aug p 50 1958 Aug p 50 1958 Aug p 50 1958 Oct p 81 1960 Nov p 100 1967 Jan p 54 1969 July p 54 1972 Oct p 47 1975 July p 45
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy research, military secrecy 1949 cost assessment, capital cost, energy economics, competitivels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 A nuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous reactor, action reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 'atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the Internations for peace', nuclear fuel, fuel element fabrication, urangeneous chemistry 'atoms for peace', nuclear fuel, fuel element fabrication, urangeneous chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, geneva chemistry 'atoms for peace', fission reactor, breeder reactor, general chemistry 'atoms for peace', fission reactor, general chemistry 'atoms	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 26-scattering uicleus 25 55–68 [217] versity July p 30–43 26 with fossil Jan p 32–38 enriched Apr p 43–50 fission uly p 62–67 26 27 28 27 28 28 27 33 28 28 29 27 33 29 27 33 29 27 33 29 27 34–37 29 27 33 20 27 34–37 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 36 20 27 37 20 27	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plui breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels usion reactor, fusion reactor technology J S utilities' orders increase pumped-storage plant tituation in U S alants in U S alatis are referendum	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-1 fonium fuel cycle eration of atomic 78 Apr p 45-57 [3004 1948 Sept p 21 1948 Nov p 2- 1950 Aug p 21 1953 June p 44 1953 Dec p 44 1953 Dec p 44 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Mar p 48 1956 Sept p 110 1956 Oct p 68 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Feb p 46 1958 Mar p 58 1958 Oct p 53 1959 Mar p 60 1958 Oct p 81 1960 Nov p 160 1967 July p 52 1971 June p 54 1975 July p 45 1976 Feb p 54 1976 Feb p 54 1976 Feb p 54
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy research, military secrecy 1949 cost assessment, capital cost, energy economics, competitivels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 A nuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, hom reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 'atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the Intern Conference on the Peaceful Uses of Atomic Energy, Gen 1945 'atoms for peace', nuclear fuel, fuel element fabrication, ura Geneva chemistry 'atoms for peace', fission reactor, breeder reactor, Geneva referct, thermonuclear reaction, thermonuclear energy for fusion reactor, magnetohydrody namics, plasma containmen effect, thermonuclear reaction, thermonuclear energy for power 1955 O fusion reactor, breeder reactor, energy economics atomic pe fission reactor, breeder reactor, energy economics atomic pe fission reactor, breeder reactor, energy economics atomic pe fission reactor, magnetic bottle, plasma confinement, deuter tritium magnetic pumping stellerator 1958 Oc	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 28-scattering sucleus 25 55–68 [217] versity July p 30–43 ve with fossil Jan p 32–38 enriched Apr p 43–50 fission fully p 62–67 ogeneous 26c p 33–39 pr p 31–35 asion factional eva, August ct p 27–33 nium ore ct p 34–37 eactors ct p 56–68 t, pinch domestic 73–84 [236] pincer in r p 29–35 pum. n t p 28–35 fuel s p 37–43	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plut breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels usion reactor, fusion reactor technology U S utilities' orders increase pumped-storage plant ituation in U S alants in U S atural reactor, CANDU reactor California referendum lowdown in U S infety assessed	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-10] 1971 June p 21-31 [36-10] 1948 Nor p 2-1948 Nor p 2-1948 Nor p 2-1950 Aug p 21 1948 Nor p 2-1950 Aug p 21 1953 June p 44 1953 Dec p 48 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Mar p 48 1956 Sept p 110 1956 Oct p 68 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Feb p 46 1958 Mar p 58 1958 Oct p 83 1958 Oct p 83 1959 Mar p 60 1958 Oct p 81 1960 Nor p 100 1967 Jun p 54 1976 July p 52 1971 June p 54 1975 July p 43 1976 Har p 60 1976 Feb p 53 1976 Mar p 60 1976 June p 54
US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy 1956 July process assessment, capital cost, energy economics, competitive fuels fission reactor, heavy-water reactor, homogeneous reactor, uranium, A E C program 1951 Annuclear fuel cycle, plutonium separation, fission products, reactor fission reactor, breeder reactor, boiling-water reactor, homogeneous reactor, reactor, sodium-cooled reactor, fast neutron reactor international cooperation, 'atomic pool' proposal 1955 A'atoms for peace', thermonuclear reaction, fission reactor, for reactor, C E R N, first of a four-part report on the Internations for peace', nuclear fuel, fuel element fabrication, urangeneous chemistry 'atoms for peace', inssion reactor, breeder reactor, Geneva for power fusion reactor, magnetohydrody namics, plasma containment effect, thermonuclear reaction, thermonuclear energy for power fission reactor, breeder reactor, energy economics atomic power fission reactor, magnetic bottle, plasma confinement, deutent tritium magnetic pumping stellerator 1958 October 1959 Felements	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 28-scattering sucleus 25 55–68 [217] 26 versity 27 July p 30–43 27 versity 28 versith fossil 29 July p 43–50 29 fission 20 July p 62–67 29 geneous 20 July p 62–67 20 jeneous 21 july p 62–67 20 july p 62–68 20 july p 48 20	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plut breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels fusion reactor, fusion reactor technology J S utilities' orders increase pumped-storage plant ituation in U S lants in U S atural reactor, CANDU reactor california referendum lowdo+m in U S itely assessed 12 reactors 35 882 mega+atts	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-10] 1977 June p 21-31 [36-10] 1918 Sept p 21 1948 Nov p 2-1948 Nov p 2-1950 Aug p 21 1953 June p 44 1953 June p 44 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Mar p 61 1956 Oct p 67 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Sept p 100 1958 Oct p 67 1958 Mar p 58 1958 Mar p 58 1958 Nov p 100 1967 June p 54 1971 June p 54 1976 Mar p 67 1975 July p 45 1976 Mar p 67 1976 June p 54 1976 June p 54 1976 June p 54 1976 June p 67 1976 June p 67
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US-USSR draft UN Assembly approval vertical proliferation nuclear physics, atomic nucleus, high-energy physics, particl experiments, electron scattering, models of the atomic research, military secrecy research, momenture, research,	Nov p 25–35 267 Oct p 48 268 July p 48 275 Aug p 46 28-scattering sucleus 29 55–68 [217] 29 versity 30–43 20 versity 30 30 30 30 30 30 30 30 30 30 30 30 30	France environmental pollution, fission reactor, public waste disposal, underground storage 1 atomic-weapon proliferation, arms control, plut breeder reactor, U S energy policy and prolif weapons 19 A E C, optimistic report first on stream Lilienthal calls for private ownership amendments to the 1945 act full-scale unit Con Ed in market 650mW plans state of the art uranium on market Calder Hall on stream education in nuclear technology fusion reactor, thermonuclear power potential costs rising U N survey Shippingport reactor 'goes critical' radioactive waste disposal peaceful use of atom, International Atomic Energy fusion reactor, astron technology cheerful predictions from A E C in naval vessels fusion reactor, fusion reactor technology J S utilities' orders increase pumped-storage plant ituation in U S lants in U S atural reactor, CANDU reactor california referendum lowdo+m in U S itely assessed 12 reactors 35 882 mega+atts	1977 Mar p 20-3 health, radioactive 977 June p 21-31 [36-10] 1977 June p 21-31 [36-10] 1918 Sept p 21 1948 Nov p 2-1948 Nov p 2-1950 Aug p 21 1953 June p 44 1953 June p 44 1955 Apr p 46 1955 July p 48 1956 Mar p 48 1956 Mar p 61 1956 Oct p 67 1957 Aug p 58 1958 Feb p 46 1958 Mar p 58 1958 Sept p 100 1958 Oct p 67 1958 Mar p 58 1958 Mar p 58 1958 Nov p 100 1967 June p 54 1971 June p 54 1976 Mar p 67 1975 July p 45 1976 Mar p 67 1976 June p 54 1976 June p 54 1976 June p 54 1976 June p 67 1976 June p 67

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	1978 June p 74	DNA, E. coli, gene structure, viral DNA, bacterial virus 0×17	4. plus-
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nuclear probe, atomic nucleus, spectroscopy, fast ne spectroscopy, structure of atomic nucleus	1964 Mar p 79-88	nucleus, ribosome, protein synthesis, DNA, mRNA, tRNA, chro	mosome,
atomic nucleus, nuclear fission, charge distribution		cytology, how cells make molecules 1961 Sept p 7	4-82 [92]
and size of nucleus	1969 Aug p 58-73	elementary particles, energy levels, atom, high-energy physics,	
nuclear propulsion, 10n propulsion, nuclear rocket, s		spectroscopy, 'three spectroscopies' 1968 May	
rocket propulsion by nuclear reactions	1959 May p 46-51	leukocyte, DNA, Miescher, spermatozoon nucleus, chromatin.	
in submarine Nautilus	1955 May p 50	hereditary material, discovery of DNA 1968 June p 78-	
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maximum permissible levels	1959 Dec p 80	number concepts, cardinal numbers, child development, mathem	atics
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tritium, cosmic radiation, lithium, radioisotope, t	1954 Apr p 38-40	magic squares, binary arithmetic, prime number, composite nu	
and an analysis of the first on the first one the first on the first on the first on the first one th		1951 July	
energy conservation, energy resources, fission readisposal, atomic-weapon proliferation, Rasmu	iccen report	mathematics, computer, computer finds five perfect numbers	r
disposal, atomic-weapon promeration, Rasing	976 Jan p 21–31 [348]	1953 Mar	p 84-86
at Brookhaven, on stream	1950 Oct p 25	mathematics, negative numbers, irrational numbers, complex i	
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open (declassified) face	1951 June p 30	Benford's Law, probability, digits, first-digit distribution	-
waste heat warms buildings	1952 Jan p 42	1969 Dec p	109-120
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\$200 million program	1954 May p 48	1977 July p 122-	
Chalk River breakdown	1954 Oct p 47	numeric displays, integrated circuits, light-emitting diode, liquid	
patented in 1939	1954 Dec p 53	Nixie tubes 1973 June	
safety weighed	1975 Sept p 53	numerical instructions, automatic control, machine tool, batch pr	ocess,
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nuclear reactor design, still classified	1953 Mar p 45	1952 Sept p	101-114
nuclear rocket, nuclear propulsion, ion propulsion	1959 May p 46–51	numerical taxonomy, botany, taxonomy, set theory, computer applications, zoology, computer classification of living thing	
rocket propulsion by nuclear reactions feasibility minimized	1949 June p 26	1966 Dec p 106–1	
nuclear-spin echo, crystal structure, phase memory	-	numismatics, archeology, coins, statistics, Taxila hoard, India	10 [1055]
mucical-spin ecilo, crystal structure, phase memory	1968 Apr p 32–40	1966 Feb p	102-111
nuclear stability, alpha decay, transuranium eleme			
nuclear stability, alpha decay, transuranium eleme decay, radioactive decay, 'synthetic' elements	ents, isotopes, beta	•	120-130
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E 1 or old 1970 SCDL D 2		sammly, occanic stiffing, sea water temperature 1973 Feb p 64-77 (art
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1960 Mar p 64-73	and the second s
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solar system, Pioneer 10 mission 1972 Jan. p 46	oxygen debt, ATP, muscle, glycolysis, aerobic metabolism factic acid
oven, bainstics, calone heat theory, science history, Rumford, heat as	formation aerobic metabolism acrobic metabolism raciic acro
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Ovshinsky devices, amorphous semiconductors, nonperiodic systems,	oxygen injection, steel production, open hearth furnace, basic oxygen
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1954 Apr p 31–34	ocean temperature, Corrolis effect, 'anatomy' of the Atlantic
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topic issue on the living cell 1961 Sept p 50-61 [90]	ox) gen storage, asphyxia, breathing, diving bradycardia, respirator, gas
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embryonic development, zygote, fertilization, clone, cytology, how cells specialize 1961 Sept p. 124-140	ischemia, human physiology, redistribution of oxygenated blood and
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1966 Aug p 72–81 [1047]	by mammals, breathing animal experiments in water-breathing
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oxen, transportation, wheeled vehicles, carts, wagons, Transcaucasus,	deficiency, cytochrome oxidase, copper biochemistry, Wilson's disease, tyrosinase 1968 May p 102-11-
Mesopotamia, origin of wheeled transport 5,000 years ago	0/ 0
1968 July p 82–90	oysters, natural history 1953 Nov p 86-91 ozone, air pollution, smog, 'blue haze', atmospheric inversion
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1956 May p 35-39	atmospheric tides, Earth, ultraviolet radiation, ultraviolet-radiation
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oxidative phosphorylation, cytology, energy transformation, ATP,	atmosphere, taouratory simulation, atomac energy 102–110
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algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes water of crystallization, nitrogen origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley premature infants retrolental fibroplasia epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route oxygen atoms, airglow, atmosphere ionosphere, solar radiation ozone, upper atmosphere laboratory simulation atomic energy levels	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust deep-sea drilling ocean evolution plate tectonics, sedimentary cores voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception touch olfactory receptors taste receptors mechanoreceptors pain receptors biological transducers 1960 Aug p 92-108 [70] pain, dolorimeter what is pain? 1953 Mar p 59 (6) anesthesia cocaine, procaine, surgery, medical research neuropharmacology pharmacology psychiatry, research in pain suppression 1957 Jan p 70 82 perception psychology neuropsychology, cultural influence on pain perception psychology neuropsychology, cultural influence on pain perception psychology neuropsychology, cultural influence on pain receptors taste receptors mechanoreceptors hological transducers 1960 Aug p 94 103 [70] painting, art restoration \(\lambda\)-ray, microchemistry spectroscopy science in 1962 July p 22 27 information theory sculpture architecture visual communication
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ozone, oxidation reduction reactions geological record oxygen ozone, oxidation reduction reactions geological record oxygen oxed by hance 1970 Sept. p. 110–123 [1192]

carbon balance

paleobotany, radiocarbon dating, carbon 14, archeological dating, pollen	pandemics, antigen variation, disease, medical history, influenza virus,
analysis 1952 Feb. p. 24–28	encephalitis, virus disease, animal vectors, Hong Kong flu, swine flu
Arctic flora, desert adaptation, cold adaptation, Greenland flora,	1977 Dec. p. 88–106 [1375]
adaptations to Arctic climate 1956 Feb. p. 88-98	Pangaea, continental drift, plate tectonics, scaling, subduction, sea-floor
primitive flowering plant 1956 Sept. p. 116	spreading. Earth crust, Triassic period, computer modeling.
Paleolithic archeology, cave art, cave paintings, sculpture, Lascaux,	supercontinents, breakup of Pangaea traced
Altamira 1968 Feb. p. 58–72	1970 Oct. p. 30–41 [892]
stone tools, tool assemblages, multivariate analysis, factor analysis,	biosphere, continental drift, marine biology, ocean evolution, plate
computer analysis, Bordes method, stone tools as fossils of behavior	tectonics 1974 Apr. p. 80–89 [912]
1969 Apr. p. 70–84 [643]	continental drift, contracting-Earth theory, science history, plate
flint tools, microwear analysis 1977 Nov. p. 108-126 [700]	tectonics, Wegener's hypothesis 1975 Feb. p. 88–97
burial site in U.S.S.R. 1965 Feb. p. 53	pangenesis, extraterrestrial life, meteorites, chondrites, organic molecules,
Paleolithic campsite, stone tools, huts, structures from 300,000 years ago	organic molecules in carbonaceous chondrites 1963 Mar. p. 43-49
1969 May p. 42-50	pantothenic acid, see: coenzyme A
Paleolithic culture. Amerindian, Havasupai, Cohonina, prehistoric man	paper, cellulose, rayon, forest products, crystal structure, lignin,
in the Grand Canyon 1958 Feb. p. 97-102	polymers, polysaccharides, overview of natural polymer
Isimila, stone tools, cultural archeology, Old Stone Age site in Africa	1957 Sept. p. 156–168
1961 Oct. p. 118–129	lignin, wood, aromatic compounds, chemical identity of elusive lignin
Switzerland, 'lake-dwellers', prehistoric Swiss lake-dwellers	1958 Oct. p. 104–113
1961 Dec. p. 138–147	forest products, wood pulp, cellulose, lignin, rayon, waste recycling, kraft process 1974 Apr. p. 52-62
anthropology, stone tools, obsidian, Andes, El Inga site, prehistoric	
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rock drawings, petroglyphs, Siberia, Paleolithic, Neolithic periods	paper chromatography, chromatography, fractionation, amino-acid
1969 Aug. p. 74-82 [649]	separation 1951 Mar. p. 35-41 fruit fly, gene mutation, insect eye, fractionating the fruit fly
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Paleolithic Europe, Cro Magno art, Magdalenian, Aurignacian-	para-aminobenzoic acid, metabolite antagonists, imitative drugs, sulfa
Perigordian, cave paintings 1953 Aug. p. 30–33	drugs, folic acid 1951 Apr. p. 60–63
Paleolithic man, aborigine, stone tools, dingo, Tasmanian devil,	para-aminosalicylic acid, isoniazid, isotopes, tuberculosis, streptomycin,
Australian aborigine, antiquity of man in Australia 1966 Mar. p. 84-93 [628]	pharmacology, tracing action of TB drugs 1956 Nov. p. 135–144
Paleolithic settlements, climate, Europe, hunting, stone tools	paradox, mathematics, set theory, logic, non-Euclidian space, non-
1976 Feb. p. 88–99	commutative algebra, Hilbert spaces, science, mathematics 1900-
climate, cultural evolution, hunter-gatherer societies. Nile prehistory.	1950, undecidable questions 1950 Sept. p. 40–42
	symbolic logic, Boolean algebra, switching circuits 1950 Dec. p. 22–24
stone tools 1976 Aug. p. 30-38 paleomagnetism, evolution. Infra-Cambrian Ice Age, glaciation, fossil	Godel's proof, mathematics, logic, philosophy of science, undecidable
record, continental drift 1964 Aug. p. 28–36	problems in axioms of arithmetic 1956 June p. 71–86
magnetic field, volcanic rocks, geomagnetic reversals, sea-floor	antinomy, mathematical logic, logic, barber paradox, undecidable
spreading reversals of Earth's magnetic field 1967 Feb. p. 44-54	questions, Godel's proof, Grelling's paradox, Epimenides' paradox,
continental drift, glaciation, Gondwanaland, Laurasia, Glossopteris,	Ženo's paradox, paradox and foundations of logic
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drift confirmed 1968 Apr. p. 52–64 [874]	games theory, mathematical logic, decision theory, 'metalogic' to solve
paleoneurology, brain evolution, brain size, cephalization index,	paradox 1967 July p. 50–56
endocranial casts, intelligence 1976 Jan. p. 90-101 [568]	symbolic logic, Dodgson, barber paradox, mathematics
paleontology, reptile, dinosaurs, mammalian evolution, therapsids,	1972 July p. 38–46
ichthyosaurs, evolution, origin of mammals 1949 Mar. p. 40-43	paradoxical sleep, dreams, sleep research, electroencephalography,
glaciation, natural history. Agassiz, Louis Agassiz, fostering of science	reticular formation, brain waves, REM sleep, cat brain, the states of
in America 1949 July p. 48-51	sleep 1967 Feb. p. 62–72 [504]
amino acids, fossil, bone, mollusk shells, paleobiochemistry	parallel lines, non-Euclidian geometry, Aristotle, non-Euclidian geometry
1956 July p. 83–92 [101]	before Euclid 1969 Nov. p. 87–98
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sediments, glaciation, climatic change, measurement of ancient	sequential processing, ILLIAC IV fastest computer
temperatures 1958 Feb. p. 54-63	1971 Feb. p. 76–87
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algae, coral, coral rings, fossil reefs, climatic change, dating by coral	botulinum 1968 Apr. p. 69–77
rings 1966 Oct. p. 26-33 [871] cotyloszur fossil, oldest reptile 1967 Sept. p. 104	paramecium, cytoplasmic inheritance, reciprocal crossing, maternal
Onverwacht microfossils 1968 Oct. p. 59	inheritance, sex linked traits, non-Mendelian inheritance, male
see also: micropaleontology	sterility, chloroplast, plastids, cytogene, review of evidence for an
Palestine, Jerusalem, Biblical archeology, city of Jebusites, David, Herod	extra-chromosomal genetics 1950 Nov. p. 30–39 [39] parametric pump. fluid separation 1966 Apr. p. 50
1965 July p. 84-91	Paranthropus, man-apes, human evolution, Homo, Australopithecus,
Palomar Observatory. Hale telescope. Schmidt telescope, galactic survey.	Plesianthropus 1949 Nov. p. 20–24 [832]
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1948 Aug. p. 12–17	'eyeless vision' unmasked in U.S.S.R. 1965 Mar. p. 57
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evolution. Hale telescope, first yield from 200 inch telescope	parasitism, toxoplasmosis, intracellular parasite, infectious disease,
1952 Feb. p. 43–51	encephablis, insect vectors 1953 Feb. p. 86_02
planets, photographs of the planets by 200-inch telescope	circadian rhythm, filariasis, elephantiasis, tropical disease
Palorman telescopes, else annuel 1953 Feb. p. 17–21	1958 July p. 94-101
Palomar telescopes, sky survey 1954 Aug. p. 38 Panama Canal, alternatives 1971 Jan. p. 44	insect reproduction, plant galls, plant growth, parasite-induced changes
pancreas, cell differentiation, embryonic development, mesoderm,	in piznts 1959 Nov. p. 151 162
endoderm, tissue culture 1969 Mar. p. 36—44 [1136]	Chaga's disease, public health, 'zoonoses', trypanocomiacie malaria
[1130]	mariasis, leishmaniasis, plague, yellow fever, typhus, epidemiology,
	animal infection and human disease 1960 May p. 161-170

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solar system, Pioneer 10 mission 1972 Jan p 4	ovygen debt, ATP, muscle, glycolysis, aerobic metabolism, lactic acid
oven, ballistics, caloric heat theory, science history, Rumford, heat as motion, Benjamin Thomson, biography 1960 Oct p 158-169	formation, aerobic metabolism, anaerobic metabolism, energy
Ovshinsky devices, amorphous semiconductors, nonperiodic systems,	mechanisms in muscle 1972 Mar p 84-91 [124]
quantum mechanics, semiconductor technology, switching	oxygen injection, steel production, open hearth furnace, basic oxygen process
pnenomena 1977 May n 36 48 1363	process 1968 Apr p 24-31 oxygen isotopes, temperature measurement, foramınıfera, abyssal
ovulation, twins, identical twins, fraternal twins, estrin, physiology of	Sediments, paleontology algoration objects objects massivement
twinning 1951 Jan p 48-51 contraception, birth control, reproduction, nidation, fertilization	of ancient temperatures 1958 Feb p 54-63
1954 Apr p 31 34	oxygen level, Atlantic Ocean, Gulf Stream, ocean circulation, salimits
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1950 May p. 16_19	atmosphere 1970 Oct p 54
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topic issue on the living cell 1961 Sept p 50-61 [90]	adaptation 1955 Dec p 58-68
cell differentiation, tissue specialization, 'lampbrush' chromosome	ox) gen storage, asphyxia, breathing, diving bradycardia respiratory gas exchange, diving mammals, diving birds, hibernation, selective
embryonic development, zygote, fertilization, clone, cytology, how	ischemia, human physiology, redistribution of oxygenated blood and
cells specialize 1961 Sept p 124-140 embryonic development, oocytogenesis, meiosis, mitosis, mammalian	'master switch of life' 1963 Dec p 92-106
eggs, chromosomal anomalies, in vitro fertilization	ovygen transfer, lung, gill, carbon dioxide, gas exchange, water breathing
1966 Aug n 72-81 [1047]	by mammals, breathing, animal experiments in water-breathing 1968 Aug p 66-74 [1123]
mitosis, fertilization, embryonic development, meiosis, blastocyst,	oxygen transport, ceruloplasmin, hemocyanin, enzymes, copper
human embryos in the laboratory 1970 Dec p 44-54 [1206] oxen, transportation, wheeled vehicles, carts, wagons, Transcaucasus,	deficiency, cytochrome oxidase, copper biochemistry, Wilson's
Mesopotamia, origin of wheeled transport 5,000 years ago	disease, tyrosinase 1968 May p 102-114 oysters, natural history 1953 Nov p 86-91
1968 July p 82–90	ozone, air pollution, smog "blue haze", atmospheric inversion
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mutochondrion, proposed structure of mutochondrion	air pollution, smort automobile emissions, urban transport all
1964 Jan p 63-74	pollution control in Los Angeles 1964 Jan p 24-31 [010]
oxidation of food, desert rat, kidney, water balance, how banner-tailed	catalysis, corona discharge, free radicals, polymerization, corona
kangaroo rat survives without water 1953 July p 73-78 [1050] oxidation-reduction reactions, chloroplast, oxygen cycle, photosynthesis,	chemistry, water purification, hydrocarbon cracking 1965 June p 90-98
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carbon balance 1970 Sept p 110-123 [1192]	atmosphere, laboratory simulation, atomic energy levels 1966 Mar p 102-110
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mitochondrion, citric-acid cycle, glycolysis, membrane, energy transformation in the cell 1960 May p 102-114	chloroplast, oxygen cycle, photosynthesis, biosphere, aerobic metabolism, oxidation-reduction reactions, geological record,
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	climate, air pollution, atmospheric circulation, carbon dioxide
transformation of energy 1961 Sept p 62-73 [91]	to a day of the day of the same and the same
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transformation of energy 1961 Sept p 62-73 [91] algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88-100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell	to a day of the day of the same and the same
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transformation of energy algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] oxide semiconductors, magnetic core, integrated circuits, computer memory, microelectronics, advent of integrated-circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 0xygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere 1953 Aug p 82–86 [824] phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants, retrolental fibroplasia, epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec. p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route 1952 Jan p 36 oxygen atoms, airglow, atmosphere, ionosphere, solar radiation ozone, upper atmosphere, laboratory simulation atomic energy levels 1966 Mar p 102–110 oxygen-carbon balance, chloroplast, oxygen cycle, photosynthesis biosphere, aerobic metabolism ozone, oxidation-reduction reactions	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection 1955 July p 36-41 earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor 1955 Nov p 36-41 [814] Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectonics, sedimentary cores, voyager of the Glomar Challenger 1973 Nov p 102-112 [911] Pacinian corpuscle, sensory perception, touch, olfactory receptors taste receptors, mechanoreceptors, pain receptors biological transducers 1960 Aug p 98-108 [70] pain, dolorimeter, what is pain? 1953 Mar p 59-66 anesthesia, cocaine, procaine, surgery, medical research neuropharmacology, pharmacology, psychiatry research in pain suppression 1957 Jan p 70 82 perception, psychology, neuropsychology cultural influence on pain perception pain receptors, sensory perception Pacinian corpuscle touch olfactory receptors taste receptors mechanoreceptors hiological transducers 1960 Aug p 98 108 [70] painting, art restoration, X-ray microchemistry spectroscopy, science in the art museum information theory, sculpture architecture visual communication trademarks language visual stimulus visual 62-15 palatalization. American languages speech changes in American specification of the process of the communication of the process of the process part of the process of the process of the process proce
algae, photosynthesis, chloroplast, Calvin cycle, path of carbon in photosynthesis 1962 June p 88–100 [122] ATP, mitochondrion, glycolysis, cell membrane, enzymes, cell metabolism, mitochondrial membrane 1968 Feb p 32–39 [1101] antibiotics, staphylococcus septicemia, antibiotic resistance, toxicology, cause of death from staphylococcal infection 1968 Feb p 84–94 cell nucleus, chromatin, chromosomal proteins, DNA, gene regulation, histones, nucleoproteins 1975 Feb p 46–57 [1315] ATP, cell membrane, active transport, mitochondrion, chloroplast, formation of the energy-exchange molecule in the cell 1978 Mar p 104–123 [1383] ovide semiconductors, magnetic core, integrated circuits, computer memory, microelectromics, advent of integrated-circuit semiconductor memories 1967 July p 18–31 oxy-aluminum torch, heat, flame chemistry, reaction kinetics, high temperatures flame 1954 Sept p 84–95 oxygen, atmosphere, escape velocity, photosynthesis, volcanoes, water of crystallization, nitrogen, origin and evolution of Earth's atmosphere phlogiston, chemistry, Priestley, life and work of Joseph Priestley 1954 Oct p 68–73 premature infants, retrolental fibroplasia, epidemiology, infant mortality, blindness, 'blind babies' 1955 Dec. p 40–44 comparative physiology, ice fish, hemoglobin, blood, Antarctic fish without red cells or hemoglobin 1965 Nov p 108–114 by intravenous route 1952 Jan p 36 oxygen atoms, airglow, atmosphere, ionosphere, solar radiation ozone, upper atmosphere, laboratory simulation atomic energy levels 1966 Mar p 102–110 oxygen-carbon balance, chloroplast, oxygen cycle, photosynthesis biosphere, aerobic metabolism ozone, oxidation-reduction reactions	Pacific Ocean, ocean floor, Mendocino escarpment, fracture zones seamounts, Earth mantle convection earth crust, Acapulco trench, Tonga Trench, Cedros Trough ocean floor floor Pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger pacific plate, Earth crust, deep-sea drilling, ocean evolution plate tectionics, sedimentary cores, voyager of the Glomar Challenger paint deceptors, mechanoreceptors, paint research in plane anesthesia, cocaine, procaine, surgery, medical research neuropharmacology, pharmacology, psychiatry research in plane suppression perception, psychology, neuropsychology cultural influence on plane p

mesons, pions, strong interactions, nuclear binding force, quantum of the strong force 1957 Jan p 84–92 [226]	chromosomal anomalies, computer analysis, computer graphics, computer recognition and classification of chromosomes
the attended to the first of th	1966 Apr p 40–46 [1040]
particle detector, semiconductor, solid state physics, particle	automatic cell sorting, blood cell analysis, computer analysis,
accelerator, semiconductor particle-detector 1962 Oct p 78-88 [284]	lymphocytes, automatic analysis of white cells 1970 Nov p 72-82 cluster-seeking algorithms, computer technology, reading machines
spark chamber design 1961 July p 72	1971 Apr p 56–71
eta meson, pion resonance, strong interactions 1962 Feb p 73	eye movement, scan-path recordings, serial-recognition hypothesis,
pion resonances 1962 June p 79	visual perception 1971 June p 34-43 [537]
atomic nucleus, strong interactions 1962 Nov p 70	visual perception, information theory, computer graphics, 'block
high-energy physics, intermediate boson 1964 Mar p 54	portraits', computer enhancement, recognition of faces
omega minus particle discovered 1964 Apr p 60	1973 Nov p 70–82
relation of electromagnetic and weak interactions forces 1973 Nov p 48	figure-ground perception, texture discrimination, visual perception, perceptual limitations 1975 Apr p 34-43 [563]
see also high-energy physics	reading, letters, words, visual cues in recognition of letters and words
article scattering, electromagnetic force, nuclear forces, proton, neutron,	1978 Jan p 122–130 [122]
mesons, high-energy physics, fundamental research, what holds the	Pauli, atom, exclusion principle, theoretical physics, antimatter, quantum mechanics, structure of atoms and nuclei 1959 July p 74-86 [264]
nucleus together? 1953 Sept p 58-63	Pavlov, conditioned behavior, behavioral psychology, biography and
article-scattering experiments, atomic nucleus, nuclear physics, high- energy physics, electron scattering, models of the atomic nucleus	appraisal of I P Pavlov 1949 Sept p 44-47
1956 July p 55–68 [217]	conditioned reflex, neurosis, operant conditioning, psychology,
atomic nucleus, science history, Rutherford, biography	thyroidectomy, stress, emotional behavior, neurosis, conditioned
1956 Nov p 93–104	reflex is shown to be a neurosis 1954 Jan p 48~57 [418]
high-energy physics, particle accelerator, atomic nucleus, method and	peasants, commerce, market, agricultural system, peasant markets in
technology of high-energy physics 1960 Mar p 98-114	Haiti 1960 Aug p 112–122 [647]
particle-storage rings, collective-effect accelerators, electron ring	peat bog, Stone Age hunters, organic relics, Neolithic archeology
accelerator, particle accelerator 1972 Apr p 22–33	1952 May p 20-25
particle tracks, photographic emulsion, cosmic radiation, neutron, proton, electron, characteristic 'signatures' of particles 1956 May p 40-47	archeology, weapons deposits, organic relics, Danish history 1953 Oct p 84-88
spark chamber, particle accelerator, cloud chamber, bubble chamber	pecking order, chicken, social behavior, sexuality and dominance
1962 Aug p 36-43	1956 Feb p 42-46 [471]
fission-track dating 1967 June p 51	aggression, group behavior, social psychology, experiments in group
particle-wave duality, see wave-particle duality	behavior 1956 Nov p 54–58 [154]
particles of wear, Beilby layer, ferrograph analysis, friction, lubrication,	communication, territorial behavior, pheromones, rabbits, scent glands,
machine wear, metal fatigue, wear 1974 May p 88–97	territorial marking by rabbit 1968 May p 116–126 [1108]
particulates, air pollution, smog, 'blue haze', atmospheric inversion, ozone, peroxides, photochemistry 1955 May p. 62–72	animal behavior, courtship display, turkeys, sexual behavior, lek behavior, Welder Wildlife Refuge 1971 June p 112-118
ozone, peroxides, photochemistry 1955 May p 62-72 climate, air pollution, atmospheric circulation, carbon dioxide	peer group, social deprivation, comparative psychology, rhesus monkeys,
'window', ozone, temperature of Earth, human activity and climatic	maternal deprivation, experiments in social deprivation
change 1971 Jan p 32-42 [894]	1962 Nov p 136–146 [473]
cermets, composite materials, dispersion-strengthened composites,	peer review, NSF, research funding, university science, science policy,
fiber-reinforced composites 1973 July p 36-44	sociology of science 1977 Oct p 34-41 [698]
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron positron annihilation, proton, quantum	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630]
electrodynamics 1973 Oct p 104–113	Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of
parts manufacture, automatic control, computer applications, machine	Macedonia 1966 Dec p 98–105
tool, batch process production methods 1975 Feb p 22-29	Peltier effect, thermoelectricity, semiconductor, Seebeck effect
Pascal's theorem, projective geometry, Renaissance paintings, Leonardo,	1958 Nov p. 31–37
Durer, Desargue's theorem, mathematics, projective geometry as	pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back
systematized by Poncelet and Klein 1955 Jan p 80–86	pain, 'scars of human evolution' 1951 Dec p 54-57 [632]
Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics,	penguin, sexual behavior, behavioral adaptation, Antarctica, natural
probability theory 1964 Sept p 92–108	history 1957 Dec p 44-51 animal migration, animal navigation, Antarctica, Adelie penguin
passive transport, active transport, pinocytosis, phagocytosis, cytology,	navigation system 1966 Oct p 104-113
osmosis, cell membrane, fertilization, functions of cell membranes	penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol,
1961 Sept p 167–180 [96]	infectious disease, the antibiotic revolution 1952 Apr p 49-57
passive trapper, carnivorous plants, active trapper, digestive enzymes,	mutation, drug resistance, bacteriology 1961 Mar p 66-71
natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung	bacterial cell, cell wall, bacterial metabolism, polysaccharides,
machine, Fallot tetralogy, technology and technique of open-heart	glycopeptides, membrane 1969 May p 92–98
surgery 1960 Feb p 76–90	synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of
patent law, Atomic Energy Act, power, licensing, international	
cooperation, military secrecy, inernational cooperation, major	mammals, heavy water biology 1960 July p 106-116 penicillin resistance, evolution, E coli, mutation rate, evolution observed
provisions of Atomic Energy Act of 1954 1954 Nov p 31-35	1953 Oct p 78–83
royalties for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46	staphylococcus aureus 1960 Nov. n. 00
patent-law reform, commerce, invention, technology 1973 July p 46 patent-law reform, commerce, invention, technology 1967 June p 19–27	Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight,
changes proposed 1967 Apr. p. 48	morel, amanuta, yeast, molds and men 1952 Jan p 28–32 [115]
pattern recognition, computer technology, artificial intelligence	Pennsylvanian period, coal, fossil, flora, Mississippian period, Carboniferous period, tropical flora, deposition of coal
Chinese language computer translation exponent was a 1960 Aug p 60-68	1948 July n. 46 51
Chinese language, computer translation, experiment in machine translation 1963 lung p. 124, 125	penny-pitching, computer contest
translation 1963 June p 124-135 memory, visual search, visual scanning information processing,	r copie s Republic of Cilina, agricultural technology, industrial
reading 1964 June p. 04_102 (496)	technology, economic development, technology in People's Republic
visual perception, computer graphics, stereoscopic images, texture	medical care, preventive medicine, primary care, 'barefoot doctors'
discrimination, depth perception 1965 Feb p 38-48 [318]	medicine, primary care, 'barefoot doctors'
•	1974 Apr p 19-27

predator-prey relationship, behavioral clues to evolution 1963 Apr p 144-15	beta decay, neutrino, muon neutrino, a particle interaction, 'weak' force, experiment demonstrating existence of muon neutrino
the rabbit flea and rabbit hormones 1965 Dec. p. 44.52 (1977)	magnetic monopoles, elementary particles, electromagnetic radiation
biological clock, malaria, Plasmodium, reproduction, gametocyte.	alternating-gradient synchrotron, 'eightfold way', omega minus
ants, insect behavior, animal communication, ant 'quests'	particle, bubble chamber, high-energy physics, US Brookhaien
comensalism, pheromones 1971 Mar n 86_93 11213	high-energy physics, storage rings, synchrotron, colliding beam
birds, finches, mimicry, sexual behavior, widow birds, animal behavior 1974 Oct p 92-98	accelerator, spark chamber 1966 Nov p 107-116
ants, social insect, pheromones, insect behavior, ant slavery	trajectory high-energy scattering 1967 Dec a 76
parathyroid hormone, calcium metabolism, phosphate metabolism, vitamin D, osteogenesis, parathyroid function	Van de Graaf generator, electrostatic belt generator, charge-changin accelerator, negative ion 1970 Aug p 24 collective-effect accelerators, electron-ring accelerator, particle-store
1961 Apr. p. 56-63 [86]	rings 1972 Apr p 22
Paré, military medicine, medicine, science history, surgery, life and work of Ambroise Pare 1956 Jan p 90-96	atomic nucleus, atomic structure, exotic atoms, kaonic atoms, muon atoms, pions, quantum mechanics, high-energy physics
parentage, blood typing, forensic medicine 1954 July p. 78–82.	1972 Nov p 102-
parental care, comparative psychology, emotional development, abnormal behavior, maternal deprivation, early experience and	beta decay, bubble chamber experiments, high-energy physics, hadrons, neutrino beam, positron 1973 Aug p 30
emotional development, experiments with rats	National Accelerator Laboratory, proton beam, neutrino beam,
1963 June p 138–146 [478] marine birds, phalarope, sexual behavior, animal behavior, sex role,	synchrotron 1974 Feb p 72- at Caltech 1952 Sept p
hormone 1969 June p 104-111	200 ft linear 1953 Feb p
animal behavior, innate behavior, learning, feeding behavior, sea gull chicks	at Oak Ridge 1953 May p
chicks 1969 Dec p 98-106 [1165] personality, child development, infant behavior, temperament,	'swindletron' 1954 Jan p breakdown at Columbia 1957 July p
interaction of temperament and environment, nature-nurture	12 5 Bev for Argonne 1958 Feb p
1970 Aug p 102–109 [529] animal behavior, crocodile, Nile crocodile, reptile	alternating-gradiant synchrotron at Brookhaven 1959 Feb p
1976 Apr p 114–124	efficiency of linear accelerator 1959 July P 24Bev synchroton 1960 Feb p
parity, elementary particles, 'weak' force, symmetry, quantum, particle	USSR state-of-the-art 1960 May P
interaction, right and left-handed particles breakdown of parity 1957 Apr p 45-53 [231]	alternating gradient synchrotron 1900 Sept P mounting of 'two-neutrino' experiment 1961 May P
antimatter, symmetry, elementary particles, 'weak' force, particle	anti-xi minus creation 1962 May P
interaction, recognition of 'fourth force' 1959 Mar p 72-84 [247] symmetry, time reversal, CPT mirror, mirror images	Cambridge Electron Accelerator 1962 May p antineutrinos and neutrinos 1962 Aug p
1965 Dec p 28-36 [301]	alignment of proton spin axes 1963 Mar P
time reversal, symmetry, charge conservation, lambda decay, CPT	U S research and development program 1963 July p t
conservation, proton spin, experiments in time reversal 1969 Oct p 88-101	site chosen for IIS 200 GeV accelerator 1967 Feb p :
violation of symmetry 1957 Mar p 62	supercooled electron accelerator 1968 June p 4
Parkinson's disease, link to 1918 flu pandemic 1961 Sept p 86 parthenogenesis, fertilization, sea urchin egg 1950 Dec p 46-49	NAT reaches decign energy 1972 July p 5
fertilization, progesterone, hyaluronidase, zona pellucida	teravolt proposal
1951 Mar p 44-47 in fowl 1956 May p 64	proton-anaproton stotage img
embryonic growth in fowl without fertilization 1961 Feb p 72	1978 Min P "
particle acceleration, cosmic radiation, massive nuclei, high-energy	particle bed, fluidization, petroleum cracking, turbulence, gas stream food processing 1968 July p 94-10
physics, Milky Way, magnetic field, supernovae, fundamental research, where do cosmic rays come from?	particle charge physical constants, measurement, velocity of light
1953 Sept p 64–70 [239]	electron mass, least-squares method, standards of measurement, Planck's constant, Rydberg constant 1970 Oct p 62-78 [337
cosmic radiation, cosmic ray showers, supernovae, galactic halo, synchrotron radiation, abundance, energies, sources of cosmic rays	particle counters, elementary particles, electron, proton, neutron
1969 Feb p 30-63	positron, mesons, photon, neutrino, particle accelerator, nuclear binding lorce, 'Meson Song' 1948 June p 26 39
particle accelerator, elementary particles, electron, proton, particle counters, neutron, positron, mesons, photon, neutron, nuclear	radiation counters, high-energy physics, how counters work 1950 July p 49-43
Lindian force (Monon Cong) 1948 Julie D 20-39	particle detector, particle physics semiconductor, solid state physics
high-energy physics, inventory of plant world-wide 1948 Oct p 18–19 cosmotron, Bevatron, high-energy physics, technology of high-energy	particle accelerator, semiconductor particle-detector 1962 Oct p 78-88 [284]
whiches may see into the Giga (hillion) Voll range 1991 100 P 20 23	particle interaction, elementary particles, parity, 'weak' force, symmetry,
strong-focusing synchrotron, plans for foo-billion-electron-voll	quantum, right and left-handed particles breakdown of panty 1957 Apr p 45-53 [231]
scintillation counter, electron-multiplier tube, scintillation counters 1953 Nov p 36-41	and the state of t
1954 Mar p 84-90	recognition of South force 1939 Mar D 14" 15"
research funding, USSR, high-energy physics 1956 Aug p 29-35	muon, electron 'weak' force, high energy physics, properties of massive negative particle 1961 July p 46, 55 [275]
thermonuclear reaction, element abundance, stenar events	colliding beam accelerator, high-energy physics proton proton
isotopes, synthetic elements, experimental 1956 Sept. p. 82-91	high energy physics gauge theory, field theory, 'weak' force
high-energy physics, particle-scattering experiments atomic nucleus, method and technology of high-energy physics 1960 Mar p 98-114	electromagnetic force 'strong' force 1974 July p 6 59 electromagnetic force gauge theory neutrino interactions 'weak' force
	and a set overent interactions 17/4 17% P 17
ductor solid state physics	particle physics, merons, strong interactions, nuclear randoms in the
semiconductor particle-detector 1962 Oct p 78-88 [284]	105 O 1 b of 105 [5 4]

mesons, pions, strong interactions, nuclear binding force, quantum of	
	chromosomal anomalies, computer analysis, computer graphics, computer recognition and classification of chromosomes
	1966 Apr p 40-46 [1040]
particle detector, semiconductor, solid state physics, particle	automatic cell sorting, blood cell analysis, computer analysis,
accelerator, semiconductor particle-detector 1962 Oct p 78-88 [284]	lymphocytes, automatic analysis of white cells 1970 Nov p 72-82 cluster-seeking algorithms, computer technology, reading machines
1001 7.1 70	1971 Apr p 56-71
oputh endinost action	eye movement, scan-path recordings, serial-recognition hypothesis,
the mostly promited that the same and the sa	visual perception 1971 June p 34–43 [537]
pion resonances 1962 June p 79	visual perception, information theory, computer graphics, 'block
atomic nucleus, strong interactions 1962 Nov p 70	visual perception, information theory, computer graphics, block
high-energy physics, intermediate boson 1964 Mar p 54	portraits', computer enhancement, recognition of faces
omega minus particle discovered 1964 Apr p 60	1973 Nov p 70–82
relation of electromagnetic and weak interactions forces	figure-ground perception, texture discrimination, visual perception,
1973 Nov p 48	perceptual limitations 1975 Apr. p 34-43 [563]
•	reading, letters, words, visual cues in recognition of letters and words
see also high-energy physics	1978 Jan p 122–130 [122]
article scattering, electromagnetic force, nuclear forces, proton, neutron,	Pauli, atom, exclusion principle, theoretical physics, antimatter, quantum
mesons, high-energy physics, fundamental research, what holds the	mechanics, structure of atoms and nuclei 1959 July p 74–86 [264]
nucleus together? 1953 Sept p 58-63	
article-scattering experiments, atomic nucleus, nuclear physics, high-	Pavlov, conditioned behavior, behavioral psychology, biography and
energy physics, electron scattering, models of the atomic nucleus	appraisal of I P Paylov 1949 Sept p 44-47
1956 July p 55–68 [217]	conditioned reflex, neurosis, operant conditioning, psychology,
atomic nucleus, science history, Rutherford, biography	thyroidectomy, stress, emotional behavior, neurosis, conditioned
1956 Nov p 93–104	reflex is shown to be a neurosis 1954 Jan p 48-57 [418]
high-energy physics, particle accelerator, atomic nucleus, method and	peasants, commerce, market, agricultural system, peasant markets in
	Haiti 1960 Aug p 112–122 [647]
technology of high-energy physics 1960 Mar p 98-114	peat bog. Stone Age hunters, organic relics, Neolithic archeology
particle-storage rings, collective-effect accelerators, electron-ring	
accelerator, particle accelerator 1972 Apr p 22–33	1952 May p 20–25
particle tracks, photographic emulsion, cosmic radiation, neutron, proton,	archeology, weapons deposits, organic relics, Danish history
electron, characteristic 'signatures' of particles 1956 May p 40-47	1953 Oct p 84–88
spark chamber, particle accelerator, cloud chamber, bubble chamber	pecking order, chicken, social behavior, sexuality and dominance
1962 Aug p 36–43	1956 Feb p 42–46 [471]
fission-track dating 1967 June p 51	aggression, group behavior, social psychology, experiments in group
particle-wave duality, see wave-particle duality	behavior 1956 Nov p 54-58 [154]
particles of wear, Beilby layer, ferrograph analysis, friction, lubrication,	communication, territorial behavior, pheromones, rabbits, scent glands,
	territorial marking by rabbit 1968 May p 116–126 [1108]
	animal behavior, courtship display, turkeys, sexual behavior, lek
particulates, air pollution, smog, 'blue haze', atmospheric inversion,	behavior, Welder Wildlife Refuge 1971 June p 112–118
ozone, peroxides, photochemistry 1955 May p 62-72	
climate, air pollution, atmospheric circulation, carbon dioxide	peer group, social deprivation, comparative psychology, rhesus monkeys,
'window', ozone, temperature of Earth, human activity and climatic	maternal deprivation, experiments in social deprivation
change 1971 Jan. p 32-42 [894]	1962 Nov p 136–146 [473]
cermets, composite materials, dispersion-strengthened composites,	peer review, NSF, research funding, university science, science policy,
fiber-reinforced composites 1973 July p 36-44	sociology of science 1977 Oct p 34–41 [698]
<u>.</u>	Peking man, human evolution, Homo erectus, fossil men, Java man,
parton model, antimatter, high-energy physics, colliding-beam	
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630]
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104-113	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46-53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of
parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104-113 parts manufacture, automatic control, computer applications, machine	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105
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parton model, antimatter, high-energy physics, colliding-beam accelerator, electron-positron annihilation, proton, quantum electrodynamics 1973 Oct p 104–113 parts manufacture, automatic control, computer applications, machine tool, batch process production methods 1975 Feb p 22–29 Pascal's theorem, projective geometry, Renaissance paintings, Leonardo, Durer, Desargue's theorem, mathematics, projective geometry as systematized by Poncelet and Klein 1955 Jan p 80–86 Pascal's triangle, mathematics, probability, combinatorial analysis, normal curve, Brownian motion, Markov chain, statistics, probability theory 1964 Sept. p 92–108 passive transport, active transport, pinocytosis, phagocytosis, cytology, osmosis, cell membrane, fertilization, functions of cell membranes 1961 Sept p 167–180 [96] passive trapper, carnivorous plants, active trapper, digestive enzymes, natural history 1978 Feb p 104–155 [1382] patent ductus arteriosus, cardiac prostheses, cardiac surgery, heart-lung machine, Fallot tetralogy, technology and technique of open-heart surgery 1960 Feb p 76–90 patent law, Atomic Energy Act, power, licensing, international cooperation, military secrecy, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35 roy alties for U-235 production process 1958 Dec p 54 rapid-growth technology 1973 July p 46 patent-law reform, commerce, invention, technology 1967 June p 19–27 (hanges proposed 1973 July p 48 pattern recognition, computer technology, artificial intelligence 1960 Aug p 60–68 Chinese language, computer translation, experiment in machine translation 1963 June p 124–135 memory, visual search, visual scanning, information processing,	Peking man, human evolution, Homo erectus, fossil men, Java man, Homo erectus in family tree of H sapiens 1966 Nov p 46–53 [630] Pella, Greek civilization, Macedonia, Hellenic art, mosaic, capital of Macedonia 1966 Dec p 98–105 Peltier effect, thermoelectricity, semiconductor, Seebeck effect 1958 Nov p 31–37 pelvis, bipedal walking, human evolution, lumbar vertebrae, lower-back pain, 'scars of human evolution' 1951 Dec p 54–57 [632] penguin, sexual behavior, behavioral adaptation, Antarctica, natural history 1957 Dec p 44–51 animal migration, animal navigation, Antarctica, Adelie penguin navigation system 1966 Oct p 104–113 penicillin, antibiotics, streptomycin, aureomycin, chloramphenicol, infectious disease, the antibiotic revolution 1952 Apr p 49–57 mutation, drug resistance, bacteriology 1961 Mar p 66–71 bacterial cell, cell wall, bacterial metabolism, polysaccharides, glycopeptides, membrane 1969 May p 92–98 synthesis of 'natural' penicillin 1957 May p 63 penicillin mold, algae, deuterium, reaction kinetics, metabolism of mammals, heavy water biology 1960 July p 106–116 penicillin resistance, evolution, E coli, mutation rate, evolution observed 1953 Oct p 78–83 staphylococcus aureus 1960 Nov p 90 Penicillium notatum, mycology, fungi, wheat rust, ergot, potato blight, morel, amanita, yeast, molds and men 1952 Jan p 28–32 [115] Pennsylvanian period, coal, fossil, flora, Mississippian period, Carbomferous period, tropical flora, deposition of coal 1948 July p 46–51 penny-pitching, computer contest 1954 July p 48 People's Republic of China, agricultural technology, industrial technology, economic development, technology in People's Republic

anthropology, central-place theory, market	networks, Guatemala, rur	al atomic structure and a
markets	1975 May p 66-	70
AAAS symposium rate of economic growth	1961 Feb p	periodic table, 'synthetic' elements, transporter and the state of the
pentide hand protein structure protein and	1972 Sept p	elements, stable isotopes, isotopes, first of a senes of articles
peptide bond, protein structure, protein synthe hydrogen bonds, tertiary structure, natur	esis, amino-acid sequence,	recounting the completion of the table of elements (43 freelym)
proteins	e, diversity and function of 1950 June p 32-41 [1	ollpromethium, 85[astatine] and 87[francium]) and the first five
proteins, zymogen, trypsin, proteolytic enzy	mes hydrolysis enzymes	Ularisuranic elements (93/neptunium), 94/phitonium), 95/amencium)
structure and function of protein-digestin	g enzymes	96[curium] and 97[berkelium]) 1950 Apr p 38-47 [242
	1964 Dec. p. 68-7	alpha decay, transuranium elements, isotopes, nuclear stability, beta
insulin, automatic synthesis, protein synthes	SIS, amino acide "solid	decay, radioactive decay, 'synthetic' elements, the 'superheavy' elements beyond 103 1969 Apr p 56-61
phase' method of synthesis, polystyrene b		permanent magnets, geomagnetism, electromagnetism, Blackett
pentide chain proteins amino code alabatata	1968 Mar p 56-74 [320	hypothesis, Elsasser-Bullard hypothesis, theories on origin of
peptide chain, proteins, amino acids, alpha heli and-key theory, how is a protein made?	ix, enzyme catalysis, lock-	terrestrial magnetism 1950 June p 20-24
peptides, kinins, kallidin, venom, inflammation	1953 Sept p 100-10	The state of the s
local hormones, production and distributi	on	Alnico 1970 Dec p 92-100 peroxides, air pollution, smog, 'blue haze', atmospheric inversion
	1962 Aug n 111-118 1132	particulates, ozone, photochemistry 1955 May p 62-72
perception, psychology, psychological testing, s	science, psychology 1900-	perpetual motion, thermodynamics, Maxwell's demon, second law of
1950	1950 Sept p 79-84	thermodynamics 1967 Nov p 103-110 [317]
conformity, social pressure	1955 Nov p 31–35 [450	
central nervous system, medulla, reticular for reflex, neurophysiology, attention and one	rmation, brain, motor	1968 Jan p 114-122
torion, nour opiny storogy, attention and one	1957 May p 54-60 [66]	Perseid trail, 11 seconds in moonlight 1950 Sept p 52
pain, psychology, neuropsychology, cultural	influence on pain	Persia, ancient trade, archeology, writing, Elamite culture, Mesopotamian culture, Sumer, Iran, Tepe Yahya
perception	1961 Feb p 41-49 [457]	1971 June p 102-111 [660]
visual perception, form perception, learning,	innate or learned form	Persian Gulf fields, Middle East oil, petroleum resources, energy
perception	1961 May p 66-72 [459]	economics, economic development, Iran, Irag, Saudi Arabia
brain hemispheres, cerebral dominance, split callosum, intelligence, language, localization	-brain experiments, corpus	
canosum, mienigence, language, localizano	on of brain function 1967 Aug p 24–29 [508]	
vision, retinal image-processing, visual percep		minicomputers FLEX LOGO SMALLTALK
	69 May p 104-114 [1143]	1977 Sept p 230-244 [384]
afterimages, phosphenes, vision, prosthesis fo	or blind, self-illumination	personal-transit systems, cities, urban transport, computer modeling
of visual centers	1970 Feb p 82-87	systems analysis, mass transit 1969 July p 19-27
image processing, memory, linguistic material remembering what is seen	l, visual memory, 970 May p. 104–112 [528]	personality, visual perception, 'Ames room', aniseikonic lenses, anxiet) 'Hom' phenomenon, emotional relationships condition perception
auditory illusions, hearing, phonetics, speech		1959 Apr p 30-60
psychology, illusions as clues to organization		anxiety factor analysis 1963 Mar p 96–104 (475)
apparatus	1970 Dec p 30-33 [531]	behavior, self esteem, child development 1968 Feb p 96-106 [511]
crime, eye-witness testimony, memory, jury tr		child development, parental care, infant behavior, temperament,
and the annual and bear horsen have a seach	1974 Dec p 23-31 [562]	interaction of temperament and environment, nature-nurture 1970 Aug p 102-109 [529]
auditory perception, brain hemispheres, cereb illusions, handedness, hearing, illusions, two		seven factors 1950 June p 25
	1975 Oct p 92-104 [566]	Pers, photogrammetry, New World archeology, pre-Inca cities mapped
infant shape perception	1966 May p 56	by aerial photography 1951 Aug P 1873
perception of pictures, art, Escher's prints, optical		New World archeology, Viru valley 1954 Aug p 26-34 Playa Grande culture, New World archeology, history of a dig
visual perception perceptual development, child development, eye-	1974 July p 90–104 [560]	1955 Mar p 98-104
infant perceptions, object concept	1971 Oct p 30-38 [539]	agricultural production, poverty, education, economic development
perceptual illusions, central nervous system, drug	-induced imagery,	language, literacy, Cornell-Peru experiment in economic development 1957 Jan p 37-45
hallucination, perceptual-release theory 19	77 Oct p 132–140 [579]	development 1937 Jan p 57-15
perceptual isolation, electroencephalography, hall	lucination, boredom.	metallurgy, New World archeology, New World archeology, Old Copper culture, copper, gold, lost-wax casting, metalwork, pre
neuropsychology, sensory deprivation, effect monotonous environment	1957 Jan p 52–56 [430]	Columbian, New World, 4 000 B C
perceptual learning, psychology, learning, spatial		cave dwellers, stone tools, human evolution Ayacucho site 1971 Apr. p 36-46
behavior, innate vs acquired space perception	n 1956 July p 71–80	
perceptual memory, vision, eldetic images child p	sychology,	Peru Current, anchovy, guano, seagulls, El Niño upwelling 1954 Mar p 66-71
'photographic' memory perceptual transparency, color fusion, color scission	1969 Apr p 36–44 [522]	climate Inca civilization New World archeology, environmental
transparency, ontical illusion, transparency, v	visual perception	influences on early Peruvian cultures 1965 Oct P
· I	974 Apr p 90-98 [222]	anchovy crisis El Niño, fishing upwelling Peruvian anchovy 1973 June p 22-29 [1273]
percolation, brine, Red Sea hot brines, salinity, oc	ean floor, sea-floor 1970 Apr p 32-42	Demoise anchors, anchors crisis El Niño fishing unwelling, Peru
spreading	1970 Apr p 32-42 1978 June p 86	Current 1973 June p. 42-47 [1477]
perfect square, perfect square of order 21 perfumes, essential oils, oleoresins steam distillati	on, vacuum distillation.	pest control, rabbit plague, myxomatosis Australia 1954 Jeh p 30 35
· #	1722 Mus D 10	lamprey, jawless fish, Great Lakes trout whitefish 1955 Apr p 3/, 41 agricultural pest fire ants dieldrin insecticide 1958 Mrr p 3/, 41
and managings nerve condu	ction Schwann cen	histograph nest control screen worm fly X-ray sterilization citifs
axoplasm, membrane potential, cell perturbit	entration gradients	eradication of the screw worm fly 1977 (A.1. P. 27. 1
		see also biological pest control insecticide apricultural pest ar 1 tl
perihelion shift, artificial satellite, relativity theory,	Mercury, stellar shift,	like pesticide, see insecticide
electromagnetic frequency sinti, etc. para	1959 May p 149-160	Petra, Greek civilization Substantin Sear Fart artificing
electromagnetic frequency shift circk parado- testing Einstein's general theory of relativity periodic structures, diffraction gemsiones grain sti	ructure, opal colors	Heller 7st on of Arths 19/3 Oct p. 941 -
silica-sphere packing	1976 Apr p 84-95	
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petrified wood, Eocene epoch, Yellowstone National Park, erosion,	barbiturates, hypnotics, tranquilizers, sedatives, anesthesia
volcanic sediments, petrified forests of Yellowstone 1964 Apr p 106-114	1958 Jan p 60-64 Phocomelia, thalidomide, technology assessment, U S F D.A in
petroglyphs, Paleolithic culture, rock drawings, Siberia, Paleolithic,	thalidomide catastrophe 1962 Aug p 29–35 [1100]
Neolithic periods 1969 Aug p 74–82 [649]	chelation, hemochromatosis, lead poisoning, drug action, Wilson's
petroleum, oil drilling, industrial technology, advances in drilling	disease, metal poisoning, heavy metal poisoning, bone cancer,
technicology 1958 Nov p 99–111 water mection, gas injection, secondary recovery 1965 July p 34–42	salicylates, aspirin, cancer therapy, chemotherapy, medical exploitation of chelates 1966 May p 40-50
water injection, gas injection, secondary recovery proteins, food production, petroleum fermentation 1965 Oct p 13-17	Cannabis sativa, marijuana, drug abuse, consciousness, sociology
energy economics, tar sands, oil shales, shale retorts, potential liquid-	1969 Dec p 17-25 [524]
hydrocarbon reserves 1966 Feb p 21–29	chemotherapy, drug effects, liver function, vaccine, hormone,
oil reserves, oil consumption, energy resources, OPEC, finite horizon of petroleum energy economy 1978 Mar p 42–49 [930]	antibiotics, medical care, herbial medicine 1973 Sept p 102–112 botanical collections, food plants, herbanium resources
petroleum energy economy 1978 Mar p 42–49 [930] tertiary recovery 1953 Oct p 56	1977 May p 96–104 [1359]
asphalt, for beneficiation of sandy soils 1967 Jan p 60	reserpine, synthesis 1956 July p 50
salt domes in deep-sea floor 1969 July p 54	proliferation of drugs 1961 July p 71
strike in Japanese offshore waters 1969 Oct p 48 petroleum consumption, surpasses coal 1953 Sept p 76	pharynx, music, voice, singing voice, larynx, acoustics of singing voice 1977 Mar p 82-91
petroleum consumption, surpasses coal 1953 Sept p 76 petroleum cracking, fluidization, particle bed, turbulence, gas stream,	phase memory, crystal structure, photon echoes, laser, nuclear-spin echo
food processing 1968 July p 94–104	1968 Apr p 32-40
catalysis, chemical reaction, industrial processes 1971 Dec p 46-58	phase transitions, explosions, shock waves, materials technology, solids
petroleum extraction, land subsidence, water injection	1969 May p 82–91
1967 June p 93-100 petroleum fermentation, proteins, petroleum, food production	superfluidity, helium 3, liquid phase, gas phase, solid state physics, quantum effects, quantum fluids 1976 Dec p 56-71
1965 Oct p 13–17	phase velocity, light velocity, radiowave, plasma, free-electron density,
petroleum refinery, automatic control, continuous processing. fluid	'things that go faster than light' 1960 July p 142–152
dynamics, control panel, automatic chemical plant	Ph.D.: Doctor of Philosophy
1952 Sept p 82–96	Ph.D.'s, origin and employment 1966 Mar p 57 in science and engineering, 130 per 1,000,000 U S population
petroleum reserves, fossil fuel, coal reserves, energy consumption liquid- fuel consumption, shale, tar sands, coal liquefaction, the fuel	1977 Sept p 96
problem 1949 Dec p 32–39	phenotype, genotype, gene expression, mutation 1949 Oct p 46-49
petroleum resin, mulch, inexpensive mulch 1963 Apr p 84	Lysenkoism Lamarck, acquired characteristics, genotype, evolution,
petroleum resources, Middle East oil, energy economics, Persian Gulf	mutation, ostrich calluses, speciation, religion, orthodoxy, Darwinism, experiments in acquired characteristics
fields, economic development, Iran, Iraq, Saudi Arabia 1948 Sept p 9–15	1953 Dec p 92–99
pets, operant conditioning, learning, babies, how to teach animals	pheromones, insect behavior, social insect, army ant, ants, comparative
1951 Dec p 26–29 [423]	psychology, reproduction, feedback, trophallaxis, natural history,
peyote, Native American Church 1951 Oct p 38	philosophy of science, anthropomorphism 1948 June p 16–23 insect physiology, sexual behavior, queen substance, muskone, social
pH: potential of hydrogen pH, galvanic cell, glass electrode, hydrogen ions, acidity	behavior, ants, Gypsy moths, mice 1963 May p 100–114 [157]
1951 Jan p 40-43	insecticide, insect attractant, synthetic attractants, chemotaxis, odor-
phage X174, DNA, gene mutation, single-stranded DNA	basted lure, third-generation insecticides 1964 Aug p 20-27 [189]
phagocytosis, leukocyte, infection, antibodies, 'the first line of defense'	communication, territorial behavior, rabbits, scent glands, pecking order, territorial marking by rabbit 1968 May p 116-126 [1108]
1951 Feb p 48–52 [51]	ants, insect behavior, animal communication, ant 'guests',
active transport, passive transport, pinocytosis, cytology, osmosis, cell	comensalism, parasitism 1971 Mar p 86–93 [1213]
membrane, fertilization, functions of cell membranes	chemotaxis, animal communication, builheads, catfish
1961 Sept p 167–180 [96] amoebae, cell motility, cytoplasmic streaming, sol-gel reaction, front	1971 May p 98-108 [1222] insect behavior, bee dances, sex attractants, courtship display
contraction theory of amoeboid motion 1962 Feb p 112–122 [182]	1972 Sept p 52–60 [1280]
autolysis, lysosomes, enzymes, pinocytosis, metamorphosis, cellular	gypsy moth, biological pest control, olfactory receptors, sex attractants
digestive organ, 'suicide bag' 1963 May p 64-72 [156] antigens, immune response, antibodies, hypersensitivity, inflammatory	silk moth, chemotaxis, communication 1974 July p 28-35 [1299] ants, social insect, parasitism, insect behavior, ant slavery
response, leukocyte, allergy, thymus gland, lymphatic system,	1975 June p 32–36 [1323]
cellular immunity 1964 Feb p 58-64	ants, insect behavior, social insect, weaver ants
autolysis, lysosomes, enzymes, lysis, chromosome breakage, lysosome implication in disease processes 1967 Nov p 62–72 [1085]	1977 Dec p 146-154 [1373]
implication in disease processes 1967 Nov p 62–72 [1085] gene expression, repressor molecules, operator-repressor system, lac	philanthropic foundations, Congressional investigation 1954 Mar p 44 hearings fizzle
repressor, lambda repressor, isolation of two gene repressors, how	nearings fizzle 1954 Sept p 70 verdict by pre-judgement 1955 Feb p 54
they work 1970 June p 36-44 [1179]	intimidated, anyway 1955 Mar n 50
'piggyback' phagocytosis phenomenon 1962 June p 86 Phalangida, harvestman, daddy longlegs, Arachnida, animal behavior,	Philips air engine, heat engines, external combustion engines, Stirling engine, hot-air engine 1948 July p. 52-55
natural history 1962 Oct p 119–128 [137]	engine, hot-air engine 1948 July p 52-55 philosopher's stone, alchemy, transmutation, science history
phalarope, manne birds, sexual behavior, animal behavior, parental care,	1952 Oct p. 72.76
sex role, hormone 1969 June p 104-111 pharaohs, Nile valley, Egyptian civilization, Sakkara, burial site, tombs of	Parentee Residence Property, mathematics, analytic geometry,
the first pharaohs 1957 July p. 106–116	Descartes, Rene Descartes, biography 1959 Oct p 160–173 Boyle's law, chemical experimentation, pneumatics, science history
pharmaceutical industry, prostheses, F.D.A., medical care, medical	1967 Aug = 06 102
economics drug prescription, drug research, medical laboratory services 1973 Sept p 161-166	Tarbara di Leibinitz, calculus, symbolic logic, calculating machine,
pharmacology, isoniazid, isotopes tuberculosis strentoms can para-	Leibnitz, biography 1968 May p 94-100 grammar, truth logic, sentence, metalogic, mathematical proof,
aminosalicylic acid, tracing action of TB drugs	antillion) of the liar, proof and truth 1969 June p. 62, 77
anesthesia pain, cocaine, procaine, surgery, medical research,	philosophy of salary and large numbers gambler's
neuropharmacology, psychiatry, research in pain suppression	Tanac proof 1000 c
1957 Jan p 70–82	topological limited for the state of the sta
	topological limits of physics 1953 Jan p 50–56

Godel's proof, mathematics, logic, paradox, undecidable problems in	photobiology, photosynthesis, chlorophyll, carotene, retinene, vision,
axioms of arithmetic 1956 June p 71-86 astronomy, galactic clusters, universe, planetary motion, solar system,	phototropism, bioluminescence, sunlight, life and light 1959 Oct p 92-108
cosmology, introduction to single-topic issue on the universe	visible light revives uv-killed bacteria 1949 May p 27
1956 Sept p 72–81	photocell, light amplification, photomultiplier, variable stars, stellar
cosmology, universe evolution, science history, a skeptical view of	temperature, interstellar matter 1952 Mar p %-59
cosmology 1956 Sept p 224-236	photochemistry, photography, emulsion, silver halide, photographic
gravity, inertia, Galilean relativity, Einstein, frames of reference,	development 1952 Nov p 30-33
relativity, identity of inertia and gravity 1957 Feb p 99-109 mathematics, Bourbaki, axiomatics, science history, labors of the	air pollution, smog, 'blue haze', atmospheric inversion, particulates ozone, peroxides 1955 May p 62-72
mathematical collective self-styled Bourbaki 1957 May p 88–99	photolysis, chemical reaction, reaction kinetics, free radicals
uncertainty principle, wave-particle duality 1958 Jan p 51-57 [212]	spectroscopy color centers, high speed chemistry
creativity, scientific revolution, Renaissance, Leonardo, introduction to	1960 May p 134-143
single-topic issue on innovation in science 1958 Sept p 58-65	afterimages, color vision, sensory discrimination, visual pigments
biology, evolution, natural selection, creativity, innovation in biology	photochemistry of color perception 1963 Oct p 84-93 [hv] vision, retina, photographic emulsion vidicon, television camera high
1958 Sept p 100–113 [48] chance, probability, odds, calculus of chances, causation, logician's	image detection, electronic camera 1908 Sept 9 110-117
point-of-view 1965 Oct p 44–54	light-matter interaction, flash photolysis, ultraviolet light, photolysis
confirmation theory, hypothesis-testing, logic, inductive proof,	4mmles state inhotograduction photogradual OD GVC
probability 1973 May p 75–83	1908 Sept p 136 118
Snow reaffirms 'two-culture' thesis 1963 Dec p 67	chloroplast, photosynthesis, electron transport, chlorophyll
phloem, xylem, plants, radioautography, sap circulation, transport of	meeting at the state of the sta
nutrients in plant tissue 1959 Feb p 44-49 [53]	
aphuds, sap circulation, xylem, trees, use of aphids to measure forces in san flow 1963 Mar p 132-142 [154]	photochromism, glass darkens on exposure to light 1964 Mar p 59
sap flow 1963 Mar p 132-142 [134] phlogiston, oxygen, chemistry, Priestley, life and work of Joseph Priestley	
1954 Oct p 68–73	electrostatics, xerography, electrostatic precipitation and separation
phlogiston theory, chemistry, science history, Lavoisier, biography of	and of Albert Finstein appraised
Antoine Lavoisier 1956 May p 84-94	photoelectric effect, relativity, Einstein, Work of Albert 1949 Mar p 52-55 at 70
electrochemistry, electrolysis, Davy lamp, science history, Humphry Davy biography 1960 June p 106-116	as a second offects CVIDIONALISE
Phobos, Deimos, Mars. Martian moons, Mariner spacecraft missions	radicals, lethal effects of radiation 1951 Dec p 22-28
1977 Feb p 30–37 [352]	quantum mechanics, Planck, science history, specifoscopy, blank
photographs from Viking I 1977 Apr p 57	resonators, Einstein, Compton circuit, quantities Mar p 47-54 [203]
Phocomelia, pharmacology, thalidomide, technology assessment, U.S.	- Lister operay transfolli the
FDA in thalidomide catastrophe 1962 Aug p 29-35 [1100]	solar battery, solid state physics, semiconductor, energy process of 102-110
Phoenician script, Hittites, Karatepe citadel 1949 Aug p 22-23 phonetics, attention mechanism, speech perception, hearing, cochlea,	spectroscopy, materials technology, color, laser, transparency, optical
neuropsychology hearing two messages at a time	properties of materials
1962 Apr p 143-131 [407]	color, reflection, refraction, light, resonance absorption photon for the electron, interaction of light with matter 1968 Sept p 60 71 electron, interaction of light with matter 1968 Jan p 46-51
auditory illusions, hearing, perception, speech perception, illusions,	
psychology, illusions as clues to organization of perceptual 1970 Dec p 30–33 [531]	Peru, New World archeology, pre-Inca cities mapped by aerial Peru, New World archeology, pre-Inca cities mapped by aerial 1951 Aug p 18-23
apparatus verbal communication, communication, acoustic formants,	photography
mortedness (unmarkedness dvad, mortinemes, syntax, context	photograph restoration, neutron activation of silver atoms 1966 Dec p 65
constructy invariant/variable dvad 1972 Sept p 72-00	photographic development, photography, emulsion, silver halide 1952 Nov p 30 13
phonology, language, Canary Islands, nonverbal communication,	photochemistry the pattern protein
whistling, the whistled language of La Gomera 1957 Apr p 111-118	photographic emulsion, particle tracks, cosine radiation 1956 May P 40-47
heat conduction cryogenics, thermoelectricity,	electron, characteristic signatures at the second light imige
machine machanics of heat conduction 1702 Dec P	
a la annual manage materials reculionery, meimor	
	photographic Is peselling, electronic specific in the computer
heat, diffusion, solid state physics, thermal waves, second sound, cryogenics, wave propagation, helium, thermal waves in solid helium	computer, mechanical composition 1969 May p 1877
	photographic weather maps, weather saterness
phosphate metabolism, calcium metabolism, parathyroid hormone,	atmospheric circulation, near to a 1961 July p 20 74
vitamin D, osteogenesis, parathyroid function 1961 Apr p 56-63 [86]	udeocameras Wealfier (ofceating)
	photochemistry 1954 Mir p 46
phosphatidic acid cycle, cell memorane, phosphotipus, new phosphotipus, nembrane transport potential 1965 Oct p 78–86 [1022]	by amplified light 1959 Mit P (2)
phosphatidyl choline, see leculin	color film process 1972 July P '''
phosphenes, afterimages, vision, perception, prosinces 1970 Feb p 82-87	Polaroid one-step system see also high speed photography see also high speed photography to follow a integrated circuity large scale integrated
illumination of visual centers	
phospholipids, cell membrane, phosphatide actu Cste, in the phosphatide actual phos	circuits manufacture to make a 1077 Sept p 110 128 1791
cell membrane, membrane npids, membrane 1072 Fab p. 30-38 [1241]	the many disease them, resisting this first
proteins active transport [972 ten p 30]	ridicals specification and the new particular transfer and transfe
proteins active transport phosphors, absorption line, energy emission, energy transformation [954 Oct p 62-66 [237]	the state of the s
phosphorus, berylliosis, occupational health, fluorescent light enclation 1958 Aug. p. 27-33	hight driplet state of oranguetion of the state of the first light triplet state of oranguetion of the state of the first light matter and the first light matter interaction of the fir
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photic zone, sonar, echo-counding ocean floor phython deep-sea photic zone, sonar, echo-counding ocean floor phython deep-sea 1972 July p 44 50	
scattering liver, 'false bottom'	

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molecular weight determination, polymers, light scattering, viscometer,	ATP, chlorophyll, chloroplast, primary capture of light energy in
how grant molecules are measured 1957 Nov p 90-97	photosynthesis 1960 Nov p 104–118
botometry, light scattering, molecular size, aerosol, hydrosol, Tyndall	ATP, chloroplast, mitochondrion, cell metabolism, glucogenesis, citric-
spectra, measurement 1953 Feb p 69-76	acid cycle, glycolysis, oxidative phosphorylation, cytology, cellular
hotomultiplier, photocell, light amplification, variable stars, stellar	transformation of energy 1961 Sept p 62–73 [91]
temperature, interstellar matter 1952 Mar p 56-59	algae, chloroplast, oxidative phosphorylation, Calvin cycle, path of
hoton, elementary particles, electron, proton, particle counters, neutron,	carbon in photosynthesis 1962 June p 88–100 [122]
positron, mesons, neutrino, particle accelerator, nuclear binding	chlorophyll, chloroplast, electron transfer, ATP, cytochrome, pigments,
force, 'Meson Song' 1948 June p 26–39	role of chlorophyll in photosynthesis, 1965 July p 74-83 [1016]
optical pumping, microwave spectroscopy, spectroscopy, quantum	anthracene, crystallography, electron transfer, exciton, plants, organic
jumps, technique and uses of optical pumping 1960 Oct p 72-80	crystals, conjugated aromatic hydrocarbons 1967 Jan p 86-97
erystallography, laser, light refraction, nonlinear optics, light	vision, photoperiodicity, visual pigments, phytochrome, chlorophyll,
interactions, ultraviolet radiation 1964 Apr p 38-49	retina cells, plant growth, light and living matter
photoelectric effect, color, reflection, refraction, light, resonance	1968 Sept p 174–186
absorption, electron, interaction of light with matter	chloroplast, photochemistry, electron transport, chlorophyll,
1968 Sept p 60-71	mechanism of photosynthesis 1969 Dec p 58-70 [1163]
electromagnetic radiation, Coulomb's law, quantum mechanics, mass	biosphere, Earth, evolution, environment, atmosphere-hydrosphere
of photon 1976 May p 86-96	cycles, introduction to single-topic issue on biosphere
neutron, weak as well as strong interaction 1965 Feb p 51	1970 Sept p 44-53 [1188]
photon echoes, crystal structure, phase memory, laser, nuclear-spin echo	solar radiation, biosphere, agricultural ecosystem, climax ecosystem.
1968 Apr p 32-40	energy cycle, ecosystem, food chain, respiration, biosphere energy
photon emission, diffraction, light, wave-particle duality, optics,	cycle 1970 Sept p 64-74 [1190]
interference, electromagnetic waves, introduction to single-topic	water cycle, transpiration, evaporation, runoff, agricultural system,
issue on light 1968 Sept p 50-59	ocean, precipitation, biosphere 1970 Sept p 98–108 [1191]
photooxidation, light-matter interaction, photochemistry, flash	chloroplast, oxygen cycle biosphere, aerobic metabolism, ozone,
photolysis, ultraviolet light, photolysis, triplet state, photoreduction,	oxidation-reduction reactions, geological record, oxygen-carbon
dve 1968 Sept p 158-170	balance 1970 Sept p 110–123 [1192]
photoperiodicity, plant hormones, germination, flowering, phototropism	calcium carbonate, carbon cycle, sedimentary rock, fossil fuel
1949 May p 40-43	combustion, biosphere, atmosphere, carbon dioxide
flowering, plant hormones, horticulture, control of flowering	1970 Sept p 125-132 [1193]
1952 May p 49-56 [113]	biosphere, energy cycle, respiration, power, radiation energy, solar
chmate, plant growth, greenhouse, agronomy, day-night temperature,	radiation, terrestrial radiation 1971 Sept p 88-100 [664]
'phytotron', environment simulator 1957 June p 82-94	chlorophyll, chloroplast, electron transfer, light absorption
flowering, plant circulation, pigment, hormone, photoperiodicity in	1974 Dec p 68-82 [1310]
regulation of plant physiology 1958 Apr p 108-117 [112]	bacteria, cell membrane, halobacteria, rhodopsin, salt-loving bacteria
entomology, insect diapause, Lepidoptera, hibernation governed by	1976 June p 38-46 [1340]
photoperiodicity 1960 Feb p 108-118	agricultural resources, gene manipulation, irrigation, food and
plant growth, phytochrome, germination, pigments, pigment,	agriculture 1976 Sept p 164-178
flowering, photoreceptive enzyme in plants 1960 Dec p 56-63	in vitro 1951 Sept p 52
vision, photosynthesis, visual pigments, phytochrome, chlorophyll,	light reaction 1953 Feb p 37
retina cells, plant growth, light and living matter	role of ATP 1960 Aug p 72
1968 Sept p 174-186	role of ferredoxin 1962 Oct p 60
biological clock, circadian rhythm, house sparrow, pineal organ,	theory of quantasone operation 1962 Dec p 71 four-carbon pathway, C4 effeciency 1972 Feb p 42
nonvisual light receptors 1972 Mar p 22-29 [1243] biological clock, circadian rhythm, diapause, dormancy, insect	four-carbon pathway, C4 effeciency 1972 Feb p 42 phototropism, plant hormones, germination, flowering photoperiodicity
behavior, insect metabolism 1976 Feb p 114–121 [1335]	1949 May p 40-43
in commencal greenhouses 1950 July p 26	purple bacteria, photosynthesis, sulfur bacteria 1951 Nov p 68-72
in animal life 1952 Nov p 50	plant movement, nastic movement, turgor movement, geotropism
photophoresis, dust cloud hypothesis, binary stars, gravitational collapse,	touch orientation 1955 Feb p 100-106
element abundance angular momentum, origin of the Earth	photosynthesis, chlorophyll, carotene, retinene, vision, photobiology,
1952 Oct p 53-61 [833]	bioluminescence, sunlight, life and light 1959 Oct p 92-108
light, radiation pressure, sound-wave pressure, analogy and distinction,	photos oltaic conversion, solar energy, light-to-heat conversion,
light- and sound-wave pressure 1957 June p 99–108	photosynthesis, limitations and prospects of solar power
photoreactivation, ultraviolet radiation, light, visible light reactivates	1950 Aug n 16~21
organisms killed by ultraviolet 1951 May p 22-25	electric power generation, semiconductor technology, silicon-crystal
photoreduction, light-matter interaction photochemistry, flash	structure, solar cells 1976 Oct p 34_43
photolysis, ultraviolet light, photolysis, triplet state, photooxidation,	Phrygian civilization, archeological excavation, Gordion, Alexander, 700
dje 1968 Sept p 158-170	BC, preclassical Greek link with East 1959 July p 100_109
photosphere, magnetic field solar magnetism. Sun cycle, chromosphere,	physical anthropology, human evolution, effect of diet on hereditary
solar atmosphere, 11-year solar cycle explained 1966 Nov p 54-62	features 1958 Aug p 52
chromosphere, corona, eclipse phenomena, solar corona, Sun	physical chemistry, molecular biology, interdisciplinary collaboration,
photosynthesis, chlorophyll, carbon dioxide, water, tracer experiments	antigen-antibody reaction, collaboration of G Beadle and L Pauling
1948 Aug. p 24–35	minimum energy, chemical reaction 1949 May p 16–21
solar energy, light-to-heat conversion, photovoltaic conversion,	minimum energy, chemical reaction 1966 May p 61
limitations and prospects of solar power 1950 Aug p 16-21	physical constants, measurement, velocity of light, electron mass, particle charge, least-squares method, standards of measurement, Planck's
purple bacteria, phototropism sulfur bacteria 1951 Nov p 68-72	constant, Rydberg constant 1970 Oct p. 62–78 13371
atmosphere, escape velocity, volcanoes, water of crystallization,	physical incapacitation, medical care, medicine, morbidity, mortality
nitrogen, oxygen, origin and evolution of Earth's atmosphere	rates, hospital care, ambulatory care, triage, health insurance,
1953 Aug n 82-86 [824]	introduction to single-topic issue on medical care
chloroplast, grana, Hill reaction 1953 Nov p 80-84	1072 5 22 22
origins of life, Miller-Urey experiment, high-energy radiation,	physical models, physics, mathematical model, creativity, innovation in
heterotrophs, fermentation, autotrophs 1954 Aug. p 44–53 [47]	pir/sics 10co c
carotenoids, chloroplast, chlorophyll biology of pigments	
1936 Ian in XII.X6	Projection Selections, Social Dilysics, Social sciences characters and and
chlorophyll carotene, retinene vasion, photobiology, phototeography	social statistics and physical law
chlorophyll carotene, retinene vision, photobiology, phototropism,	social statistics and physical law mathematics group theory, 'eightfold way' field theory. See May p 20–23
chlorophyll carotene, retinene vision, photobiology, phototropism, bioluminescence, sunlight, life and light 1959 Oct p 92–108	social physics, social sciences, statistics, correlating

physical standards, all atomic 1950 Oct. p. 26 hieroglyphs, writing, ideographs, Mesopotamia, origin of writing in physical transparency, color fusion, color scission, perceptual transparency, optical illusion, transparency, visual perception clay tokens 1978 June p. 50-59 [708] picture elements, color television, line structure, field-scanning rate, 1974 Apr. p. 90-98 [559] physics, harmony, string instruments, wind instruments, piano, voice, technology assessment, competing color television systems weighed musical scale, acoustics, agreeable melodies and physical laws 1950 Dec. p. 13-17 picturephone test, televised telephoning 1964 July p. 48 1948 July p. 32-41 pictures as objects, visual perception, optical illusion, size constancy, 'How Nice To Be a Physicist', songs by Arthur Roberts distortion, illusions arise from normally useful mechanisms 1948 Sept. p. 50-51 crystal structure, polygons, polyhedra, axis of rotation, philosophy of 1968 Nov. p. 66-76 [517] pidgin, linguistics. Creole, gullah, colonialism, grammar, evolution and science, topological limits of physics 1953 Jan. p. 50-56 elaboration of colonial languages politics, cosmology, Laplace, life and work of Pierre Simon de Laplace 1959 Feb. p. 124-134 piezoelectricity, quartz, crystal structure, ultrasonic transducer, nature 1954 June p. 76-81 and uses of piezoclectricity 1949 Dec. p. 46-51 humor, language, jocular physics, broken English, tribute to Niels Bohr bone, osteogenesis, collagen, calcium metabolism, bone adaptation to 1956 Mar. p. 93-102 mechanical stress 1965 Oct. p. 18-25 [1021] physical models, mathematical model, creativity, innovation in physics piezometrie surface, ground water, artesian well, water table, water cycle, 1958 Sept. p. 74-82 resource management, runoff, ground water in water-resource see also: high-energy physics, particle physics, quantum mechanics and management 1950 Nov. p. 14-19 [818] the like pig, laboratory animals, comparative physiology, small pig as physics curriculum, high school, curriculum reform, science teaching, experimental animal, resemblance to man Physical Science Study Committee, university sponsored curriculum 1966 June p. 94-100 [1045] 1958 Apr. p. 56-64 [229] pigment, flowering, photoperiodicity, plant circulation, hormone, physics in U.S.S.R., same interests 1955 May p. 51 photoperiodicity in regulation of plant physiology physics of brasses, musical instruments, horn flare, trumpet bell, trumpet 1958 Apr. p. 108-117 [112] 1973 July p. 24-35 plant growth, phytochrome, photoperiodicity, germination, pigments, physiological adaptation, mouse, water retention, behavioral adaptation, flowering, photoreceptive enzyme in plants 1960 Dec. p. 56-63 Mus musculus, commensal of man 1969 Oct. p. 103-110 [1159] pigment synthesis, carotenoids, flower pigments, flavonoids, physiological age, measured by nitrogen turnover 1949 Dec. p. 29 anthocyanins, biochemistry and genetics of flower pigments physiological psychology, diabetes insipidus, thirst, salt excretion, 1964 June p. 84-92 [186] electrolyte balance, thermoregulation, urine, kidney, osmoreceptor pigmentation, behavioral adaptation, 'cold-blooded' animals, theory of thirst, Cannon 'dry mouth' theory thermoregulation, lizard, reptile, behavioral thermoregulation 1956 Jan. p. 70-76 acetylcholine, hormone, nerve impulse, serotonin, synapse, emotional 1959 Apr. p. 105-120 illness, neurotransmitters, central nervous system, chemical hormone, skin color, melanín, melanocytes, melatonin 1961 July p. 98-108 mediation of nerve impulses 1957 Feb. p. 86-94 hypnosis, sleep, suggestibility, experiments in hypnosis pigments, solar energy, light absorption, energy conversion, solar 1956 June p. 97-106 1957 Apr. p. 54-61 animal behavior, bioelectricity, electrically controlled behavior plant growth, phytochrome, photoperiodicity, germination, pigment, 1960 Dec. p. 56-63 1962 Mar. p. 50-59 [464] flowering, photoreceptive enzyme in plants color vision, retina, cone cells, ganglion cells, spectrophotometry, threeanimal behavior, sex differences, hypothalamus, testosterone, sex 1964 Dec. p. 48-56 [197] hormones, pituitary hormones, sex differences in rat brain, effect of color receptor system chlorophyll, photosynthesis, chloroplast, electron transfer, ATP, testosterone 1966 Apr. p. 84-90 [498] cytochrome, role of chlorophyll in photosynthesis, attention, learning, novelty, conflict, monotony, conflict and arousal, 1965 July p. 74-83 [1016] aid to learning 1966 Aug. p. 82-87 [500] pillow lava, remanent magnetism, mid-Atlantic rift, ocean ridges, seaphysiological tremor, muscle contraction, sensory feedback floor spreading, submersible research craft 1975 Aug. p. 79-90 [918] 1971 Mar. p. 65-73 [1217] pilot error, psychology, instrument panel, ergonomics, designing physiology, nervous system, endocrine system, respiration, nerve impulse, 1953 Apr. p. 74-82 [496] muscle contraction, science, physiology 1900-1950 instrument panels for their users 1954 Jan. p. 38 1950 Sept. p. 71-76 Piltdown man, compound fraud pinch effect, fusion reactor, nuclear power, magnetohydrodynamics, microsurgery, laser, cell, laser lesions, cell organelle plasma containment, thermonuclear reaction, thermonuclear energy 1970 Feb. p. 98-110 [1170] 1957 Dec. p. 73-84 [236] counter-current exchange, rete mirabile, heat conservation, swim for domestic power Pine Lawn Valley, New World archeology, Cochise culture, Mogolion bladder, kidney, gill, physics of a physiological invention culture, 2500 B.C. to 1300 A.D. in New Mexico 1951 July p. 46-51 1957 Apr. p. 96 pineal organ, adrenal gland, biological clock, estrogens, progesterone, see also: neurophysiology, physiological psychology, comparative melatonin, serotonin, pineal regulation of sex glands physiology, human physiology 1965 July p. 50-60 [1015] physostigmine, alkaloids, plant physiology, morphine, strychnine, biological clock, circadian rhythm, house sparrow, photoperiodicity, 'hemlock', caffeine, coniine, quinine, cocaine, ricinine, LSD, human 1972 Mar. p. 22-29 [1243] nonvisual light receptors toxins in plant physiology 1959 July p. 113-121 [1087] pink tooth disease, porphyria, dermatology, gene pool, tracking porphyria phytochrome, plant growth, photoperiodicity, germination, pigments, 1957 Mar. p. 133-142 among Afrikaaners pigment, flowering, photoreceptive enzyme in plants pinks, alpine environment, cushion plant, lammergeier, Himalayan 1960 Dec. p. 56-63 1961 Oct. p. 68-78 mountain ecology vision, photosynthesis, photoperiodicity, visual pigments, chlorophyll, pinocytosis, cell membrane, cytology, cell metabolism, ingestion by outer retina cells, plant growth, light and living matter 1961 Apr. p. 120-130 membrane 1968 Sept. p. 174-186 active transport, passive transport, phagocytosis, cytology, osmosis, cell phytoplankton, algae, kelp, food chain, algin, agar 1952 Dec. p. 15-17 membrane, fertilization, functions of cell membranes 1958 Oct. p. 56 antibiotic properties of Antarctic phytoplankton 1961 Sept. p. 167-180 [96] 1949 Dec. p. 30 pi constant, to 2,040 places autolysis, lysosomes, enzymes, phagocytosis, metamorphosis, cellular piano, physics, harmony, string instruments, wind instruments, voice, 1963 May p. 64-72 [156] digestive organ, 'suicide bag' musical scale, acoustics, agreeable melodies and physical laws 1959 July p. 68 in amoebae 1948 July p. 32-41 pions, mesons, strong interactions, particle physics, nuclear binding force, musical instruments, music, harmonics, harpsichord, physics of the 1957 Jan. p. 84-92 [226] quantum of the strong force 1965 Dec. p. 88-99 high-energy physics, strange particles, muon, conservation of piano pictograph, nonverbal communication, anthropology, Easter Island strangeness, sorting out the multiplicity of particles 1958 June p. 61-68 1957 July p. 72-88 [213] Vinca culture, writing, Tartaria tablets, Romania, Sumer, cultural talking boards

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mesons, particle accelerator, proton, quark, high-energy physics, nucleons, Regge trajectory, high-energy scattering 1967 Dec. p. 76-91	planetary atmosphere, Jupiter, Taylor column, Great Red Spot, rotation period, hydrodynamic explanation vs. raft hypothesis 1968 Feb. p. 74-83
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peline transportation, anhydrous ammonia fertilizer 1968 Oct. p. 61	universe, solar system, cosmology, introduction to single-topic issue on the universe 1956 Sept. p. 72-8'
ipelines, natural gas, economic regionalism in U.S., appraisal of natural gas, economics and resources in U.S. 1951 Nov. p. 17-21	Antikythera, Greek computer, ancient instruments, science history,
agricultural irrigation, canals, hydro-engineering, Jordan Valley Plan,	Classical archeology, computer technology, 2,000-year-old computer 1959 June p. 60-6
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1967 Jan. p. 62–12	Copernicus, astronomy, Copernicus, length of calendar year 1966 Oct. p. 88-98
natural gas, liquid natural gas, tankers, storage, distribution of LNG 1967 Oct. p. 30-37	Doppler effect, radar astronomy, delay-Doppler mapping, Mercury,
network analysis, nodes and branches, powergrids, graph theory, reliability analysis 1970 July p. 94-103	Venus, microwaves 1968 July p. 28-3' Kepler's laws, science history 1972 Mar. p. 92-100
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1971 Sept. p. 164-175 [669]	planetary nebulae, spectroscopy, nebulae, shells of luminous gas around
pit viper, rattlesnake, fangs, high-speed photography, rattlesnake 'bite' is a stab 1953 Oct. p. 100-102	hot, dense stars 1963 Apr. p. 60-6' planetary systems, extraterrestrial intelligence, interstellar
pituary gland, ACTH, hormone function 1964 May p. 62	communication, origins of life, cyclops project 1975 May p. 80-89 [347
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1972 Nov. p. 24-33 [1260]	of 123 nearby stars 1977 Apr. p. 96-104 planetisimal collisions, albedo, asteroids, meteorites, solar system
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1950 Oct. p. 18–22	planets, Palomar Observatory, photographs of the planets by 200-inch telescope 1953 Feb. p. 17-2
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adrenal gland, ACTH, cell communication, molecular structure of ACTH, relation to function 1963 July p. 46-53 [160]	technology and promise of radar astronomy 1960 Aug. p. 50-59 Jupiter, Venus, solar system, radio astronomy, measuring planetary
amphibian, metamorphosis, frog, thyroxin, hypothalamus,	surface temperature 1961 May p. 58-65
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pituitary hormones, animal behavior, sex differences, hypothalamus,	photomosaic, volcanoes on Mars 1973 Jan. p. 48-69 chondrites, element formation, solar system chemistry, space
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synthesized 1953 Dec. p. 50	Mercury, solar system, craters, Mariner 10 mission 1975 Sept. p. 58-68
vasopressin synthesized 1956 Sept. p. 112 pituitary insufficiency, ateliosis, midgets, dwarfism, genetic disease,	solar system, Earth, Venus, cratering, Venutian atmosphere 1975 Sept. p. 70-78
congenital anomalies, consanguinity, growth hormone deficiency,	Jupiter, Jovian meteorology, planetary atmosphere, solar system, Great
panhypopituitarism, General Tom Thumb placebos, medical care, medical research 1967 July p. 102-110 1955 Aug. p. 68-71	Red Spot 1976 Mar. p. 46-50 planispheric astrolabe, ancient instruments, analogue computer,
doctor-patient relations, medical care, informed consent, medical ethics 1974 Nov. p. 17-23	astrolabe, science history, how they did it then 1974 Jan. p. 96-106 plankton, 'false bottom', marine biology, sonar, shrimp, heteropod, deep-
placenta, umbilical cord, fetus, anatomy and physiology of the umbilical	sea scattering layer, deep-sea 'layer of life' 1951 Aug. p. 24-28
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immunological privilege, reproduction, trophoblast, nidation	food chain, krill, whale, Antarctic convergence, Euphausia superba
plague, disease, cholera, yellow fever, epidemiology 1953 Feb. p. 22-27	1958 Jan. p. 84-89 [853 sonar, echo-sounding, ocean floor, deep-sea scattering layer, photic
Chaga's disease, public health, 'zoonoses', parasitism, trypanosomiasis, malaria, filariasis, leishmaniasis, yellow fever, typhus, epidemiology,	zone, 'false bottom' 1962 July p. 44-50 sea, food chain, marine ecology, ocean, fish, marine life, life in the
animal infection and human disease 1960 May p. 161-170	ocean 1969 Sept. p. 146-162 [884
plague bacillus, bacterial toxin, Black Death, respiration, electron transport, mechanism of death by plague toxin 1969 Mar. p. 92-100	marine organisms, appendicularians 1976 July p. 94-102 plant biochemistry, carbon 14 traces plant uptake 1961 Oct. p. 81
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1963 Feb. p. 54-62	chromosome doubling, origin and perfection of wheat 1953 July p. 50-59
Planck, quantum mechanics, science history, spectroscopy, black body, resonators, Einstein, photoelectric effect, Compton effect, quantum	chemical mutagens, agronomy 1971 Jan. p. 86-95 [1210 corn, lysine, plant protein, agronomy, human nutrition, malnutrition,
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1950 July p. 48-51 [255] physical constants, measurement, velocity of light, electron mass,	plant pathogens, sugarcane, mechanism of disease resistance in
particle charge, least-squares method, standards of measurement,	agronomy, crop yields, rice, wheat, maize, food and agriculture plant
Rydberg constant 1970 Oct. p. 62-78 [337] planetary ages, cratering, meteorite bombardment, solar system	genetics 1976 Sept. p. 180–194 plant cell, cell anatomy, spermatozoon, ovum, virus, science history,
evolution, cratering of four inner planets as key to solar-system history 1977 Jan. p. 84-99 [351]	cytology, muscle cen, connective tissue cell, introduction to single-
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electricity in plants 1962 Oct. p. 107–117 [136]	phototropism, touch orientation 1955 Feb p 100-106
eancer, multipotential cells, tumor, teratoma, gene expression,	plant nutrition, plant roots, root pressure, soil minerals, transport mechanisms 1973 May p 48-58 [1271]
minipitions 1965 Nov p 75-83 [1024] pollen, scanning electron microscope, flower, morphology	plant pathorens, disease-resistant plants, plant breeding, agronomy, plant
1968 Apr p 80-90 [1105]	disease fungal infection, sugarcane, mechanism of disease resistance
cellulose, cell wall, monosacchandes, polysacchandes	in plants 1975 Jan p 80-88 [1515]
1975 Apr p 80-95 [1320]	plant physiology, alkaloids, morphine, strychnine, 'hemlock',
dant cell differentiation, tissue culture, meiosis, mitosis, clone, generation	physostigmine, caffeine, comme, quinine, cocaine, nomine, LSD, human toxins in plant physiology 1959 July p 113-121 [1887]
of whole preasure from tissue cell (carrot) 1963 Oct p 104-113	Line I meeting to one history san flow Stephen Hales's work
plant cell wall, place, tylan, mannan, cellulose, xylan, mannan in place of cellulose in marine plant tissue 1968 June p. 102–108 [1110]	(A)(I)(1) b >0 to.
cellulose in marine plant tissue 1968 June p 102-108 [1110] siant circulation, flowering, photoperiodicity, pigment, hormone,	plant protein, corn, lysine, plant breeding, agronomy, human nutnion,
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1958 Apr p 108-117 (112)	legumes, mirogen fixation, agronomy, soybean products 1974 Feb p 14-21
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mlants [975 3311]) 00-00 [1515]	1952 June p 66-12
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- 1 ministry butterill -Diant association	a tencion science
1967 June p 104-113 [1070]	plants, Hales, root pressure, sap circulation, snoot tension, 322 Oct p 78-82 history, Stephen Hales, founder of biophysics 1952 Oct p 78-82
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agriculture plant growth, fungi, mushrooms, mycelium, burgeoning explained plant growth, fungi, mushrooms, mycelium, burgeoning explained 1956 May p 97-106	plasma, heat, magnetohydrodynamics, shock tube, solat promisers very high temperatures
agronomy, auxins, oak, giberellin, function of plant growth hormone	very high temperatures light velocity, radiowave, phase velocity, free-electron density, 'things light velocity, radiowave, phase velocity, free-electron density, 'things 1960 July p 142-152
	that go faster than light'
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temperature, phytotion, children 1957 June v 82–94	mechanically and electromagnetically driven shock waves mechanically and electromagnetically driven shock waves 1963 Feb p 109-119
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flowering, photoreceptive energy industry agricultural technology,	see also blood plasma, gas plasma, plasma physics and plasma arcs, circuit breakers, electric power, high-voltage current 1971 Jan p 76-84
food production, fertilizers, chemical mudday, 55 June p 62-72 increasing world food supply the proposes giberellin	physica area, chouse of
increasing world tood supply auxins, cytokinins, dormin, plant hormones, giberellin 1968 July p 75-81 [1111]	plasma confinement, plasma physics, magnetic bottle, behavior of 1957 Oct p 87-94
to the engage magnetis.	magnetically confined plasmas fusion reactor, nuclear power, magnetic bottle, deutenum, tritum, 1958 Oct p 28-35
vision, photosynthesis, photoperiodicity, visual pigments, phytochrome, chlorophyll, retina cells, light and hving matter 1968 Sept p 174-186	magnetic pumping stellerator 1958 Oct p
phytochrome, chlorophyti, retina cens, nght 1968 Sept p 174-186 1959 Nov p 88	nuclear power, fusion reactor, imagnetic control 1966 Dec p 21-31
light-sensitive enzyme	
light-sensitive enzyme plant hormones, plant communities, growth inhibitors, plant chemicals plant hormones, plant communities, growth inhibitors, plant chemicals 1949 Mar p 48-51	I manuer
antagonistic to other plants	fusion reactor, laser implosion, nuclear power, nuclear power, 1974 June p 24-37
germination, flowering, photoperiodicity, photorophotoperiodicity, phot	thermonuclear reaction
tissue culture, plant tissue grafts dedifferentiation of plant cells, plant 1950 Mar p 48-51	plasma containment, fusion reactor, nuclear power, magnetohydrodynamics, pinch effect, thermonuclear reaction, magnetohydrodynamics, power 1957 Dec p 73-84 [236]
growth requirements	thermonuclear energy for domestic person torch, energy
flowering, photoperiodicity, horizontal 1952 May p 49–36 [113]	nuclear powel, iccycling, many 1071 Eab p 30-04 [579]
auxins, plant growth, cytokinins, dormin, giberellin 1968 July p 75-81 [1111]	transformation, magnetory and properties fusion reaction
hand model, illectionized	magnetic boille, allomatous
auxins, adaptation, trees, tree structure, ax-ticad motor, July p 92-102	miarros an one depreces F
1-mon of 11885	plasma jet, electric arc, heat, magnetohydrodynamics, 30,000 degs by 80-88
brassins characterized plant hybrids, wheat, hybrid wheat, agronomy, food production 1969 May p 21-29 plant hybrids, wheat, hybrid wheat, agronomy, food production 1974 Aug p 72-80	torch, applications torphison, jet velocity, cesium-ion beam, magnetohydrodynamics, ion propulsion, jet velocity, cesium-ion beam, magnetohydrodynamics, ion propulsion pr
grain, proteins, plant protein, agronomy, Triticale 1974 Aug p 72-80 grain, proteins, plant protein, agronomy, Triticale 1974 Aug p 72-80 grain, proteins, plant protein, agronomy, Wisconsin	electrical propulsions, space and bettle behavior of
grain, proteins, plant protein, agronomy, Triticale 1974 Aug p 72 to grain, proteins, plant migration, oceanography, New World archeology, animal migration, plant migration, oceanography, New World archeology, animal migration, plant migration, bridge, continental shelf, glaciation, Wisconsin	the circ plasma commenter the the the the state of the st
Bering land bridge, continental shell, guactitude, Bering land bridge, guactitude, Bering l	models for study of gas plasmas 1963 Nov p 40-33
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nuclear power, fusion reactor, plasma confinement, magnetic bottle,	hydrothermal extraction, mineral deposits, mineral resources, mineral
magnetic shear 1966 Dec. p. 21-31	prospecting, non-ferrous ore 1973 July p. 86–95 [909]
fusion reactor, laser-pulse fusion, nuclear power 1971 June p. 21-33	Andes, earthquake distribution, mountain formation, seismic waves, volcanic activity 1973 Aug. p. 60–69 [910]
plasmids, antibiotic resistance, bacteria, infectious disease, drug	volcanic activity 1973 Aug. p. 60-69 [910] Earth crust, deep-sea drilling, ocean evolution, Pacific plate,
resistance, gene mutation, Rh factor, bacterial conjugation 1973 Apr. p. 18-27 [1269]	sedimentary cores, voyager of the Glomar Challenger
gene manipulation, molecular cloning, recombinant DNA, Asilomar	1973 Nov. p. 102–112 [911]
conference, hazard evaluation 1975 July p. 24–33 [1324]	biosphere, continental drift, marine biology, ocean evolution, Pangaea
Plasmodium, Anopheles mosquito, tropical medicine, malaria,	1974 Apr. p. 80–89 [912]
epidemiology, W.H.O. malaria eradication 1962 May p. 86-96	continental drift, contracting-Earth theory, science history, Pangaea,
biological clock, malaria, parasitism, reproduction, gametocyte,	Wegener's hypothesis 1975 Feb. p. 88-97 Earth mantle, kimberlites, meteorite composition, seismic waves,
mosquitoes 1970 June p. 123–131 [1181] plastic humus, good tilth from Monsanto 1952 Jan. p. 34	
plastic humus, good tilth from Monsanto 1952 Jan. p. 34 plastic zone, Earth mantle, seismology, isostatic equilibrium, basalt,	plumes, Earth dynamics 1975 Mar. p. 50-63 [915] Earth evolution, solar system, erosion 1975 Sept. p. 82-90
Mohorovicic discontinuity, plastic zone at depth between 37 and 155	earthquake zones, island arcs, lithospheric subduction, mountain
miles 1962 July p. 52–59	formation, sea-floor spreading, subduction zones, volcanic zones
plastics, silicon, polymers, silicon, carbon, silicon in place of carbon	1975 Nov. p. 88–98 [919]
1948 Oct. p. 50–53	domes, hot spots, island arcs, ocean rifts, plumes, volcanoes 1976 Aug. p. 46-57 [920]
acetylene, chemical industry 1949 Jan. p. 16–21 fluorocarbons, fluorine, stable and promising compounds	convection cells, Earth mantle, convection currents, driving force of
1949 Nov. p. 44–47	continental drift, large-scale circulation 1976 Nov. p. 72–89 [921]
glass fiber, materials technology, synthetic fiber, composite materials,	continental drift, age of rocks 1977 Mar. p. 92-104
properties of 'two-phase' materials 1962 Jan. p. 124–134	mountain formation, continental drift, earthquake zones, Gobi Desert,
carbon, polyethylene, spherulites, solid state physics, crystallography	Himalaya formation, India-Eurasia collision, sea-floor spreading,
1964 Nov. p. 80–94	Tibetan plateau 1977 Apr. p. 30-41 Earth heat, Earth core, heat flow 1977 Aug. p. 60-76 [927]
materials technology, polymers, natural polymers, cross-linking, covalent bonds 1967 Sept. p. 148–156	sea-floor spreading, metals, mid-ocean ridge, hydrothermal extraction,
covalent bonds 1967 Sept. p. 148-156 input-output analysis, interchangeability of materials, cost assessment,	manganese nodules, origin of metal deposits on ocean floor
price trends, materials technology, metals, competition among	1978 Feb. p. 54-61 [929]
materials 1967 Sept. p. 254-266	crustal plate junction in Pacific 1970 Sept. p. 86
heat resistance, polymers, materials technology, aromatic	see also: continental drift
hydrocarbons, high-temperature-resistant plastics 1969 July p. 96–105	platelets, blood plasma, blood fractionation, erythrocyte, leukocyte, centrifuge, blood transfusion, blood banks 1954 Feb. p. 54–62
water-soluble Polyox 1958 Jan. p. 46	hemagglutination, hemostasis, blood clotting, role of platelets in
Delrin polymerization process 1958 May p. 58	clotting mechanism 1961 Feb. p. 58-64
superconductors, plastic superconductor synthesis proposed	Platonism, formalism, infinitesimals, mathematical logic, real-number
1964 Aug. p. 39	line 1971 Aug. p. 92-99 Playa Grande culture, Peru, New World archeology, history of a dig
biodegradable 1968 June p. 46 plastids, cytoplasmic inheritance, reciprocal crossing, maternal	1955 Mar. p. 98–104
inheritance, sex linked traits, non-Mendelian inheritance, male	pleasure, behavior, value judgments 1968 Dec. p. 84–90 [518]
sterility, paramecium, chloroplast, cytogene, review of evidence for	pleasure centers, brain, learning, neurophysiology, neuropsychology,
an extra-chromosomal genetics 1950 Nov. p. 30–39 [39]	hypothalamus, electrode stimulation of pleasure centers in rat brain
chloroplast, mitochondria, symbiosis, cell organelle, DNA, prokaryote	1956 Oct. p. 105-116 [30] pleiades, interstellar gas, stellar evolution, stellar cluster, mass and
origin, protein synthesis, cell evolution, extra-nuclear genetic activity in cell 1970 Nov. p. 22-29 [1203]	motion in and of clusters, clues to formation
mitochondria, extranuclear heredity 1964 Nov. p. 58	1962 Nov. p. 58-66 [285]
plate boundaries, earthquakes, plate tectonics, San Andreas fault	Pleistocene fossils, continental shelf submersion 1967 Jan. p. 58
1971 Nov. p. 52–68 [896]	Plesianthropus, man-apes, human evolution, Australopithecus
plate-boundary stresses, earthquake prediction, seismology, earthquake precursors 1975 May p. 14-23 [917]	Paranthropus, primates, hominids branched from other primates 30 million years ago 1948 May p. 16-19
plate-glass, manufacture by floating 1971 Apr. p. 52	man-apes, human evolution, Homo, Australopithecus, Paranthropus
plate tectonics, continental drift, remanent magnetism, ocean floor, island	1949 Nov. p. 20-24 [832]
arcs, Wegener hypothesis re-stated with new evidence, age of rocks	plethysmography, hypertension, venous system, vasoconstriction, veins,
1963 Apr. p. 86-100 [868] continental drift, glaciation, Gondwanaland, Laurasia,	actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093]
paleomagnetism, Glossopteris, sea-floor spreading, supercontinents,	pleuropneumonia-like organism, see: PPLO
continental drift confirmed 1968 Apr. p. 52-64 [874]	'Plowshare', atomic explosions, underground nuclear explosions, Rainier
continental drift, sea-floor spreading, magnetic reversals, crustal	explosion, search for constructive use for nuclear explosions
movement, earthquakes 1968 Dec. p. 60–70 [875] continental drift, sea-floor spreading, ocean ridges, convection	plumes, Earth mantle, kimberlites, meteorite composition, plate tectonics,
currents, Earth mantle, tensile-stress hypothesis	seismic waves, Earth dynamics 1975 Mar. p. 50–63 [915]
1969 Nov. p. 102–119	domes, hot spots, island arcs, plate tectonics, ocean rifts, volcanoes
continental drift, scaling, subduction, sea-floor spreading, Earth crust,	1976 Aug n 46_57 19201
Triassic period, Pangaea, computer modeling, supercontinents, breakup of Pangaea traced 1970 Oct. p. 30-41 [892]	diamond, Earth mantle, kimberlite pipes, volcanic eruption, genesis of kimberlite pipes
earthquakes, plate boundaries, San Andreas fault	kimberlite pipes 1978 Apr. p. 120–132 [931] pluralistic economy, employment, public sector, private-enterprise sector,
1971 Nov. p. 52 68 [896]	productivity, U.S. economy, not-for-profit sector
continental evolution, geosyncline, mountain formation, sedimentary rock, Apallachian foldbelt 1972 Mar. p. 30.38 [899]	1976 Dec = 25 20
continental drift, earthquake zones, magnetization natterns, subduction	Pluto, Neptune, orbital motion, solar system, Pluto as escaped Neptunian
zones, mountain formation, sea-floor spreading, overview of the new	satellite 1959 Apr. p. 86–100 [295] Neptune, outer planets, Saturn, solar system, Uranus
20102V 1077 Nov 66 68 10001	1975 Sept = 120 140
species dispersion, continental drift, fossil record, evolution	cx-satelitie of Neptune!
mountain formation, continental drift, Gondwanaland, Himalaya	
formation, indian-Ocean formation, magnetization patterns, sea-	plutonium, ultra-microchemistry, embryonic development, cytology, chemistry, isolation of plutonium established a new research
floor spreading 1973 May p. 62–72 [908]	technology 1954 Feb = 76 81
	1954 Feb. p. 76–81

breeder reactor, fission reactor, energy demand, uranium fission, 'third	18 million Salk shots	1955 Apr p 47
generation' breeder reactors 1967 May p 25-33	Salk trials successful	1955 June p 46
discovery recounted by Seaborg 1959 Feb p 66	Salk campaign a success	1956 Jan p 54
plutonium fuel cycle, nuclear power, atomic-weapon proliferation, arms	live (Sabin) vaccine	1956 May p 60 1956 July p 48
control, breeder reactor, U.S. energy policy and proliferation of atomic weapons. 1978 Apr. p. 45-57 [3004]	Salk vaccine in U S S R Salk vs Sabin vaccines	1957 Sept p 112
plutonium separation, nuclear fuel cycle, fission products, fission reactor,	live virus vaccine in the field	1959 Aug. p 64
nuclear power 1952 July p 62-67	live-virus vaccine approved for general use	1960 Oct p 82
Pluto's mass, one tenth of predicted 1950 July p 28	SV-40 virus in salk vaccine	1961 Nov p 86
pneumatic buildings, radar domes, building construction, construction	Sabin type III vaccine approved for general use	1962 June p 78
technology 1956 June p 131–138	Sabin type III vaccine infections	1962 Nov p 68 1964 Nov p 58
pneumatic propulsion, mass transit, underground transport, railway,	Sabin vaccine for children polio virus, virus culture, human embryo tissue	1955 Sept p 76
gravity propulsion, transport by 'pedulum' train 1965 Aug p 30-40 pneumatic seriomechanisms, control systems, automatic control,	poliony clitis, gammaglobulin, epidemiology, immun	ity, blood
servomechanisms, actuators, frequency response, hydraulic	fractionation, vaccine	1923 July 6 47-47
servomechanisms, control systems 1952 Sept p 56-64	slow virus infection, multiple sclerosis, myelin she	ith, demyelmating
pneumatics, Boyle's law, chemical experimentation, science history,	factor, latent viruses	1970 July p 40-46 1949 Oct p 28
philosophy 1967 Aug p 96–102	exaggerated figures	1950 Nov p 25
pneumococcus, bacteria, gene transformation, drug resistance,	stress susceptibility gamma globulin field trials	1952 Dec p 28
streptomycin, recombinant DNA, biochemistry of Avery, McLeod and McCarty experiment 1956 Nov p 48-53 [18]	crystallized	1955 Dec p 48
and McCarty experiment 1956 Nov p 48-53 [18] gene transformation, cell wall, recombinant DNA, transformation	animal carriers of polio virus	1956 Apr p 64
induced by factor synthesized by cell 1969 Jan p 38-44	Coxsacki-polio link	1959 Jan p 66 1959 Apr p 64
Pockel's effect, communication technology, laser, pulse-code modulation,	US polio by socioeconomic status	1977 Sept p 96
electron optics, Kerr effect, polarization, modulators, modulation of	decline in vaccination-rate poliomy elitis virus, central nervous system, infective s	specificty, infective
laser light 1968 June p 17–23	specificity, epidemiology, nature of the disease a	nd public health
pocket calculator, calculating machine, computer, integrated circuits,	before production of the Vaccines	1720
nod corn, corn, genetics, teosinte, tripsacum, popcorn, hybrid cells, New	1 hacterionhage Dacie	nopnage, anugen enficity, viruses in
World archeology, plant genetic experiment and archeological linus	antibody reaction, immunity, infection, nost-spe-	1951 May p 43-51
point to pool corn as wild ancester of maise 1950 July p 20-24 [20]	infection and in the laboratory tissue culture, rhesus embryo, serial passage, polio	vaccine, tissue
podzole, soil structure, chernozems, latozols, tundra, alluviai soiis,	culture of virus opens way to vaccine	1952 Nov p 26-29
agronomy, ecology of soil, soil erosion, the soils of the world and their management 1950 July p 30-39	and and anislant antihody nersistence	1955 Apr p 42-44
poison ivy, allergic reaction, autosensitivity, dermatitis, rheumatoid	anterox mises Coxsackie virus, lissue cuiture, ecito	ruses
arthus multiple scierosis, delayed hypersensitivity	epidemiology, benign and infectious intestinal vi	
1900 Apr p 125-137	adenoviruses, virology, X-ray diffraction, polyoma	virus, herpes virus,
poisons, ionizing radiation, radioautography, 'bone-seekers', chelate,	influenza virus, vaccinia virus, todacco mana	rus, bacteriophage, 1963 Jan p 48-56
scintillation counter animal toxins, nerve conduction block, tetrodotoxin, saxitoxin, puffer animal toxins, and the puffer animal toxins animal toxins and the puffer animal toxins and the puffer animal toxins animal toxins animal toxins and the puffer animal toxins	structure of viruses	multiplication virus
fish, California newt 1967 Aug p 60-71 [1080]	structure of viruses DNA, genetic code, protein synthesis, RNA, virus	1975 May p 24-31
and the like	structure	1954 Jan p 42
polar bears, animal migration, telemetry, satellite, Arche, satellite, 11031	polishing, Beilby layer, burmshing, abrasion hypothes	is, melting 1968 June p 91-99
	hypothesis	Pierre Simon de
polar cap, Mars, desert, atmosphere, climate, 'canals', picture from Earth- 1953 May p 65-73	hypothesis politics, cosmology, Laplace, physics, life and work of	1954 June p 76-81
bound study Magner 7 telemetry, orbital motion, television	Laplace politics of aid, economic development, military expend	atores cold war.
	rich nations, poor nations	u mombology
	'rich' nations, 'poor' nations pollen, scanning electron microscope, flower, plant ce	Apr p 80-90 [1105]
polar ecology, algae, lichens, symbiosis, fungi, desert ecology, symbiotic 1959 Oct p 144-156 [111]		
nature of lichens	honeybee housekeeping, honeybee, hive environmen	
	pollen analysis, radiocarbon dating, paleobotany, cart	on 14, 1952 Feb p 24-28
polar front, jet stream, upper atmosphere, weather, atmospheric 1952 Oct p 26-31	archeological dating	records of the ice
circulation, index cycle 1956 Aug p 50	pollen chronology, glaciation, micropaleoniology, 1949	May p 48-51 [834]
polar ice cap, glacial cycle theory	age	efficity 1951 June p 52-56
Polaris, arms race, missile submarities, 322 June p 15–27 [344] missile		c ocean floor.
polarization, astronomy, supernovae, Crab Nebula, photometric 1962 Apr p 54-63	pollution, ocean, mineral resources, sea water, wetland	ot p 166-176 [885]
observations of nova outputs	physical resources of the ocean	ydrocarbons,
communication technology, laser, pulse-code modulation, or laser optics, Kerr effect, Pockel's effect, modulators, modulation of laser 1968 June p 17-23	DOT dieldrin, avian reproduction, moodiff	od chain pr p 72-78 [1174]
optics, Kerr effect, Pocket's effect, modulators 1968 June p 17–23	ecological effect of pesticides	ation biosphere,
light polarized light, animal navigation, Nichol prism, dichroic material 1955 July p 88-94	human population, food production, tertifizers, hing	acity to produce
horseshoe crab	food	p 160-170 [1196] 1966 May p 52
insect behavior, ants, bee, insect eye, animal havigation 106-115 [1342]	trash no place to put it	lout
police laboratory, crime detection, forensic chemistry 1953 Feb p 58-66 police laboratory, crime detection, forensic chemistry 1953 Feb p 58-66 1953 June p 50	see also air pollution, neat pollution and the inter-	nal disputes,
tio commo cionilli, available 1954 Apr D 44	pollution control, international cooperation, jurisdiction oceanography, resource management, international 1969 Sep	d competition and
polio prevention, globaliti discova culture, rhesus embryo, seriai	cooperation	resources
polio vaccine, poliomyelius virus, tissue culture vaccine passage, tissue culture of virus opens way to vaccine 1952 Nov p 26-29	coal gasification, gas turbine, on gasification, charge	1972 Oct p 26-35
1953 Mar p 32	t a mare disposal in occa	ns
billed virus nears test 1953 May p 58		974 Aug p 16-25 1948 Sept p 29
first killed-virus trials 1953 Dec p 32	Federal clean-water act	AN IN MARY I
field test for Salk 1954 June p 48 Salk trials proceed		
Dalk mais brosse		, 4,

cost of clean air and water 1971 Oct p 42	DNA, RNA, genetic code, chromosome, protein synthesis, molecular
ollution effects, city trees, tree cloning, ailanthus, ginkgo, London plane,	genetics as of mid-1957 1957 Sept p 188–200 [54]
Norway maple 1976 Nov p 110–118	collagen, elastin, keratin, myosin, fibrin, cell, polymers in living cells
oly I:C, interferon induction, synthetic RNA, virus disease	1957 Sept p 204–216 [35]
1971 July p 26–31 [1226]	molecular science, addition polymers, condensation polymers,
olyacrylates, soil conditioners, humus, polyvinylites, cellulose, tilth	introduction to single-topic issue on 'giant molecules'
1953 Aug p 36–38	1957 Nov. p 80–89
olyalphabetic systems, cryptology, code, rotor machine, cipher, history	molecular weight determination, light scattering, viscometer,
and technology of making and breaking ciphers and codes	photometer, how giant molecules are measured 1957 Nov p 90–97
1966 July p 38–46	catalysis, materials technology, industrial chemistry, stereoisomers,
polycyclic aromatic compunds, aromatic hydrocarbons, molecular	synthesizing giant molecules 1957 Nov p 98–104
structure, pyrogenesis 1976 Mar p 34-45	'stereoregular' polymers, isotactic polymers, polyethylene, catalytic
oolyethylene, polymers, catalytic polymerization, thermoplastic polymers,	polymerization, polypropylene, precisely constructed polymers
properties, production, economics of first 1,000 million-pound	1961 Aug p 33–41 [315]
plastic 1957 Sept p 139–152	glass, metals, materials technology, ceramics, chemical band, composite
polymers, 'stereoregular' polymers, isotactic polymers, catalytic	materials, atom, elements, introduction to single-topic issue on
polymerization, polypropylene, precisely constructed polymers	materials 1967 Sept p 68–79
1961 Aug p 33–41 [315]	materials technology, natural polymers, plastics, cross-linking, covalent
carbon, spherulites, plastics, solid state physics, crystallography	bonds 1967 Sept p 148–156
1964 Nov p 80–94	heat resistance, materials technology, plastics, aromatic hydrocarbons,
Ziegler process 1955 Aug. p 48	high-temperature-resistant plastics 1969 July p 96–105
polygons, physics, crystal structure, polyhedra, axis of rotation,	'iig' for polymerization 1958 July p 50
philosophy of science, topological limits of physics	see also amorphous polymers
1953 Jan p 50–56	polymorphism, genetic variation, gene mutation, natural selection,
topology, shape, polyhedra, tessellation, space-filling	mollusk shells, biological diversity, discontinuous variation
1954 Jan p 58-64	1975 Aug p 50-60 [1326]
polygraph, anxiety, lying, psychosomatic illness, guilt, breathing, pulse	Polynesian culture, Easter Island, stone heads 1949 Feb p 50-55
rate, skin temperature, 'he detector' mis-named	cultural evolution, language, tools, settlement of South Sea Islands,
1967 Jan p 25–31 [503]	origin of Polynesians 1956 Aug. p 58–72
jettisoned at Oak Ridge 1953 June p 46	polynomial-time problems, algorithms, computer science, Koenigsberg
invalid results 1963 July p 66	bridges, undecidable questions, exponential-time problems,
'he detector' discredited 1965 May p 50	efficiency of algorithms 1978 Jan p 96–109 [395]
polyhedra, physics, crystal structure, polygons, axis of rotation,	polyoma virus, carcinogenesis, recombinant DNA, virus disease,
philosophy of science, topological limits of physics	'temperate' infection, genetic transduction, viral induced malignancy
1953 Jan p 50–56	1960 Nov. p 63-71 [77]
topology, shape, polygons, tessellation, space filling	adenoviruses, virology, X-ray diffraction, poliomyelitis virus, herpes
1954 Jan p 58–64	virus, influenza virus, vaccinia virus, tobacco mosaic virus,
virus structure, virus shell, bacteriophage, assembly of T4 subunits	bacteriophage, structure of viruses 1963 Jan p 48-56
from core out 1966 Dec p 32–39 [1058]	gene culture, cell transformation, SV40 virus, viral DNA, viral
polyhedral-hole model, liquid structure, five-fold symmetry, geometrical	carcinogenesis 1967 Apr p 28–37 [1069]
arrangement of molecules in a liquid 1960 Aug p 124-134 [267]	polypeptide chain, proteins, amino acids, hydrogen bonds, X-ray
polymer microstructure, amorphous polymers, random-coil model,	crystallography, alpha helix 1954 July p 51-59 [31]
semicrystalline polymers, synthetic polymers, thermoplastic	polypeptide synthesis, collagen, proteins, beta chain, alpha helix,
polymers 1975 Dec p 96–106	polymers, amino acids, synthesis and architecture of proteins
polymer structure, morganic polymers, materials technology, polymeric	1957 Sept p 173–184 [7]
sulfur, silicon polymers 1974 Mar p 66-74	by laboratory DNA 1965 June p 56
polymeric sulfur, morganic polymers, materials technology, polymer	polypropylene, polymers, 'stereoregular' polymers, isotactic polymers,
structure, silicon polymers 1974 Mar p 66–74	polyethylene, catalytic polymerization, precisely constructed
polymerization, ionizing radiation, free radicals, organic chemistry,	polymers 1961 Aug p 33-41 [315]
ionizing radiation in industrial chemistry 1959 Sept p 180–196	polyribosomes, DNA, protein synthesis, RNA, ribosome
catalysis, lithium, stereoisomers, promotion of polymerization by lithium 1963 Jan p 88-102	1963 Dec p 44-53
hthium 1963 Jan p 88–102 catalysis, corona discharge, free radicals, ozone, corona chemistry,	polysaccharides, cellulose, rayon, forest products, crystal structure, lignin,
water purification, hydrocarbon cracking 1965 June p 90–98	polymers, paper, overview of natural polymer 1957 Sept p 156-168
boundary-phase hypothesis, superdense water, water II, polywater,	bacterial cell, cell wall, bacterial metabolism, penicillin, glycopeptides, membrane 1969 May p. 92-98
thermal conductivity, surface tension, evidence for water II argued	membrane 1969 May p 92–98 cellulose, cell wall, monosacchandes, plant cell
1970 Nov p 52–71	1975 Apr p 80–95 [1320]
polymers, silicon, silicon, carbon, plastics, silicon in place of carbon	polyvinylites, soil conditioners, humus, polyacrylates, cellulose, tilth
1948 Oct p 50–53	1953 Aug p 36–38
molecular science, addition polymers, condensation polymers,	polywater, boundary-phase hypothesis, superdense water, water II,
introduction to single-topic issue on 'giant molecules'	polymerization, thermal conductivity, surface tension, evidence for
1957 Sept p 80-89	water II argued 1970 Nov p 52-71
molecular weight determination, light scattering, viscometer,	venfication reported from US laboratories 1969 Sept p 90
photometer, how giant molecules are measured 1957 Sept p 90-97	impurities, cloud hypothesis 1973 Sept. p. 66
catalysis, materials technology, industrial chemistry, stereoisomers,	Pompeii, Roman civilization, Vesuvius eruption, two-thirds of the city's
synthesizing giant molecules 1957 Sept p 98–104	165,000 acres 1958 Apr. p. 68-78
elastomers, X-ray diffraction, molecular structure, mechanical	pond culture, fisheries, aquaculture, proteins, food, tilapia
properties of giant molecules 1957 Sept p 120–134	1963 May n 142-152
polyethylene, catalytic polymerization, thermoplastic polymers, properties, production, economics of first 1,000 million-pound	pond life, limnology, dissolved oxygen, plankton, thermocline
plastic 1957 Sept p 139–152	hypolimnion, oxidation-reduction balance in depths of a pond
cellulose, rayon, forest products, crystal structure, lignin, paper,	1951 Oct = 60 77
polysacchandes overview of natural polymer 1957 Sept p. 156-168	pongid brains, Airican hominids, brain evolution, fossil hominid brains
collagen, proteins, beta chain, alpha helix, polypentide synthesis	hominid human brain, endocranial casts
amino acids synthesis and architecture of proteins	pongids, Australoputhecus, Guantonuthecus, human
1957 Sept p 173-184 [7]	pongids, Australopithecus, Gigantopithecus, human evolution, hominid 1970 Jan p 76–85

breeder reactor, fission reactor, energy demand, uranium fi		18 million Salk shots	1955 Apr p 47
	May p 25-33	Salk trials successful	1955 June p 46
	59 Fcb p 66	Salk campaign a success	1956 Jan p 54
plutonium fuel cycle, nuclear power, atomic-weapon prolifera		live (Sabin) vaccine	1956 May p 60
control, breeder reactor, US energy policy and prolifera	ition of	Salk vaccine in USSR	1956 July p 48
atomic weapons 1978 Apr p	. ,	Salk vs Sabin vaccines	1957 Sept p 112
plutonium separation, nuclear fuel cycle, fission products, fiss	ion reactor,	live virus vaccine in the field	1959 Aug. p 64
nuclear power 1952 J	Tuly p 62–67	live-virus vaccine approved for general use	1960 Oct. p 82
Pluto's mass, one tenth of predicted 193	50 July p 28	SV-40 virus in salk vaccine	1961 Nov p 86
pneumatic buildings, radar domes, building construction, con-	struction	Sabin type III vaccine approved for general use	1962 June p 78
technology 1956 Jun	ep 131-138	Sabin type III vaccine infections	1962 Nov p 68
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gravity propulsion, transport by 'pedulum' train 1965 A	ug p 30-40	polio virus, virus culture, human embryo tissue	1955 Sept p 76
pneumatic servomechanisms, control systems, automatic cont		poliomy clitis, gammaglobulin, epidemiology, immunity	, pioog
servomechanisms, actuators, frequency response, hydrau	ilic	fractionation vaccine	1933 July b 23-27
servomechanisms, control systems 1952 Se	ept p 56-64	slow virus infection, multiple sclerosis, myelin sheath	1, demyennaung 1970 July p 40-46
pneumatics, Boyle's law, chemical experimentation, science hi	istory,	factor, latent viruses	1949 Oct p 28
philosophy 1967 Au	ıg p 96–102	exaggerated figures	1950 Nov p 25
pneumococcus, bacteria, gene transformation, drug resistance	: ,	stress susceptibility	1952 Dec p 28
streptomycin, recombinant DNA, biochemistry of Avery	, McLeod	gamma globulin field trials	1955 Dec p 48
and McCarty experiment 1956 Nov 1	p 48–53 [18]	crystallized	1956 Apr p 64
gene transformation, cell wall, recombinant DNA, transfor	mation	animal carriers of polio virus	1959 Jan p 66
induced by factor synthesized by cell 1969 J	lan p 38–44	Coxsacki-polio link	1959 Apr p 64
Pockel's effect, communication technology, laser, pulse-code	modulation,	US polio by socioeconomic status	1977 Sept p 96
electron optics, Kerr effect, polarization, modulators, mo	odulation of	decline in vaccination-rate	enficts infective
laser light 1968 Ju	une p 17-23	poliony elitis virus, central nervous system, infective spe	mublic health
pocket calculator, calculating machine, computer, integrated	circuits.	specificity, epidemiology, nature of the disease and	950 Aug p 22-26
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pod corn, corn, genetics, teosinte, tripsacum, popcorn, hybrid	cells, New	virus disease, influenza virus, bacteriophage, bacterio	icity viruses in
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positron, elementary particles, electron, proton, particle counters, neutron, mesons, photon, neutrino, particle accelerator, nuclear binding force, 'Meson Song' 1948 June p 26–39 positronium, electron, quantum electrodynamics, 'model atom' 1954 Dec p 88–92 antiproton, proton, Bevatron, antimatter, high-energy physics, postulation and discovery of antiproton 1956 June p 37–41 [244] antimatter, g factor, electron, magnetic moment, electron spin, magnetic bottle 1968 Jan p 72–85 beta decay, bubble chamber experiments, high-energy physics, hadrons, neutrino beam, particle accelerator 1973 Aug p 30–38 positron probes, antimatter, crystal structure, gamma radiation, gravitational interaction, solid state physics, scintigraph 1975 July p 34–42 positronium, positron, electron, quantum electrodynamics, 'model atom' 1954 Dec p 88–92 muonium, muon, electron, elementary particles, electromagnetism, atom, structure of muonium 1966 Apr p 93–100 postsynaphre potential, nerve circuits, dendrites, synapse, olfactory bulb, retina, microcircuits in the nervous system 1978 Feb p 92–103 [1380] posture, nonverbal communication, anthropology, cultural relativism 1957 Feb p 122–132 potato blight, mycology, fungi, wheat rust, ergot, morel, amanita, Pemcilhum notatum, yeast, molds and men 1952 Jan p 28–32 [115] Irish potato famine, social influence of the potato 1952 Dec p 50–56 fungal infection, plant genetics, late blight of potatoes 1959 May p 100–112 [109] potato virus, Lysenko, genetics, virus disease, vernalization, agronomy, the Lysenko affair 1969 May p 66–74 potential theory, Brownian motion, probabilistic potential theory, harmonic functions 1969 Mar p 66–74 potential theory, Brownian motion, probabilistic potential theory, harmonic functions 1969 Mar p 66–74 pottery, human migration, navigation, Japan, Ecuador, New World archeology, evidence for 3,000 B C trans-Pacific contact 1966 Jan p 28–35 pottery age, fission-track dating, geochronology, glass age, meteorite age, muneral age, radioactive decay, uranium fission 1976 Dec	energy, power machines, mechanical energy, biological energy, economic development, introduction to a single-topic issue on energy and power 1971 Sept p 36-49 [661] celestial energy, cosmological 'hangups', energy cycle, radiation energy, entropy per unit energy, gravitational energy, stellar evolution, thermonuclear energy 1971 Sept p 50-59 [662] energy consumption, energy resources, fission fuels, fossil fuel, fusion fuels, geothermal energy, solar energy, tidal energy 1971 Sept p 60-70 [663] biosphere, energy cycle, photosynthesis, respiration, radiation energy, solar radiation, terrestrial radiation 1971 Sept p 88-100 [664] energy cycle, Eskimo, hunting societies, food chain, seal, Baffin Island, ecosystem 1971 Sept p 104-115 [665] animal husbandry, ecosystem, energy cycle, agricultural system, New Guinea, tropical agriculture 1971 Sept p 104-115 [665] energy cycle, industrial society, U S economy, ecosystem, environmental protection 1971 Sept p 134-144 [667] energy transformation, energy demand, fuel-conversion efficiency, prime movers, steam turbines, magnetohydrodynamics, gas turbine, internal combustion engine, fuel cell, solar cells, power, nuclear power, comparative efficiencies of energy transformation pathways in industrial civilization 1971 Sept p 148-160 [668] energy economics, energy storage, economic geography, pipelines, power transmission, tankers, economic geography of energy production, distribution and consumption 1971 Sept p 179-188 [670] power machines, energy, mechanical energy, biological energy, economic development, power, introduction to a single-topic issue on energy and power 1971 Sept p 36-49 [661] power production, decision theory, energy economics, technology assessment, tort law, economic planning, market process 1971 Sept p 36-49 [661] power fransmission, alternating current, electric power, high-voltage transmission, alternating current, electric power, high-voltage transmission, economic advantages of high-voltage transmission 1964 May p 38-47 energy economics, energy storag
1960 July p 86–103 education, group behavior, rural poverty, community action, emotional illness, social psychology, study of community regeneration 1965 May p 21–27 [634]	prairie dogs, comparative psychology, animal behavior, social behavior, territorial behavior, innate behavior, learning behavior, field
racial discrimination, segregation, American Negro, Puerto Ricans, housing 1965 Aug p 12–19 [626] shantytowns, Calcutta, cities, urbanization, caste, housing, traffic, Calcutta, a city of the poor 1965 Sept p 90–102 group behavior, community action, culture of poverty, subculture of Western market societies 1966 Oct p 19–25 [631] human nutrition, hunger, population growth, developing countries, health, world poverty 1968 Nov p 27–35 Mexico City, buying habits, sociology, culture of poverty 1969 Oct p 114–124 [651] adolescence, family, alienation, racial discrimination, divorce, infant mortality, crime, suicide, drug addiction, changes in American family structure 1974 Aug p 53–61 [561] developing countries, hunger, malnutrition, food and agriculture, human nutrition 1976 Sept p 40–49 in U S population 1972 Apr p 56 power, electronics, electron tubes, amplifiers, communication technology, rectifiers, electron optics, cathode ray tube, communication, thermionic emission, state of the technology 1950 Oct p 30–39 Atomic Energy Act, patent law, licensing international cooperation, military secreey, inernational cooperation, major provisions of Atomic Energy Act of 1954 1954 Nov p 31–35	before present 1961 Mar p 72-78 [837] Precambrian fossils, gunflint cherts 1965 Apr p 60 Precambrian reactor, fission products, natural reactor, nuclear fission, Oklo phenomenon, uranium deposits 1976 July p 36-47 Precambrian rocks, bacteria, blue-green algae, fossil cells, evolution, Gunflint cherts, origins of life, prokaryotic cells, oldest fossils 1971 May p 30-42 [395] precession, Chandler wobble, earthquake effects, Earth rotation 1971 Dec p 80-88 [897] precipitation, water cycle, transpiration, evaporation, runoff, agricultural system, ocean, biosphere, photosynthesis 1970 Sept p 98-108 [1191] precipitation in solids, materials technology, solid state physics, crystal defects, epitaxial growth, surface chemistry, 'doping', chemical properties of materials 1967 Sept p 210-220 predation, alfalfa caterpillar, ecology, insecticide, life cycle, agricultural pest, wilt disease 1954 June p 38-42

biological sciences, mathematics, self-reproducing machine, nerve	nelmate an about a second
impulse, Furing machine, automata theory, mathematics in biology	primate evolution, anthropoid, fossil primates, hominoid, early relatives
1964 Sept n 149 16	
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genetics, evolution observed again 1975 Jan p 90-99 [1314 predator-prey relationship, tarantula, digger wasp, symbiosis	primate societies, primate behavior, monkey, Japanese macaques.
	protocultural behavior, social status 1976 Oct p 96-106 [1345]
animal behavior, tawny owl, nocturnal animals 1952 Aug p 20-2: 1955 Oct p 88-98	
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archer lish, animal behavior, natural history, Toxotes	fossil record, origin of human walking 1967 Apr. n. 56-66 [1070]
1963 July p 100–108	prime movers, energy transformation, energy demand, fuel-conversion
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animal behavior, spiders, Arachnida, social spiders	composite numbers 1951 July p 32-33 mathematics, science history, sieve of Eratosthenes, mathematical
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prefrontal lobotomy, psychosurgery, after 5,000 operations in the US, an	primeval fireball, cosmology, universe expansion, cosmic background
evaluation 1950 Feb p 44-47 [445]	radiation, 'big bang' theory, low-energy radiowaves, isotropy, neutral
pregnancy, epidemiology, stress, anoxia, Down's syndrome, trisomy 21,	abundance, 'big bang' theory and cosmic background radiation
etiology of Down's syndrome 1952 Feb p 60-66	primitive ants. Anguretus simoni Emery 1956 May p 64
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congenital rubella, rubella 1966 July p 30–37	1960 Dec p 134-144
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racial discrimination, American Negro, public opinion, attitude survey,	decimal system ressellation knots 1940 Dec P = "
US whites, segregation, integration, longitudinal attitude study	primardial dust aloud, chandrates, chandrale, solar system, shock Waves,
1978 June p 42-49 [707]	genesis of the solar system 1903 Oct p of the
unreal stereotypes 1954 Aug p 42	comet origins, cometary structure, exotic molecules, solar system, Comet Kohoutek 1974 Feb p 48-57
premature discoveries, artistic creations, scientific creations, uniqueness	alk de estarada matagatas planetisimal collisions solar system
of scientific discoveries 1972 Dec p 84-93 [1261] premature infants, retrolental fibroplasia, epidemiology, oxygen, infant	formation 1975 Jan p 24-33
mortality, blindness, 'blind babies' 1955 Dec p 40–44	t and the design materials solar system
alveoli, lung collapse, lecithin, breathing, surface tension, surfactant,	1975 Feb p 30 30
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in lungs 1962 Dec p 120–130	instability, nonuniformities, protogalaxies, origin of galaxies 1970 June p 26-35
blindness, neonatal disorder, medical ethics, medical researches,	printing, electronic typesetting, photographic typesetting, digital
retrolental fibroplasia, 'blind babies' 1977 June p 100-107 [1361] prenatal genetic diagnosis, amniocentesis, enzyme deficiency, genetic	
disease, hemophilia, Down's syndrome, Tay-Sachs disease,	applications 1909 May P of a
chromosomal anomalies 1971 Nov p 34–42 [1234]	Franciscony Francisco Index Light Fourier analysis, diffraction
prestressed concrete, building construction, architectural engineering,	grating Girard and interferometry 1900 July P
materials technology 1958 July p 25–31	private-enterprise sector, employment, pluralistic economy, public sector,
preventive medicine, medical care, People's Republic of China, primary	productivity, US economy, not-for-profit sector 1976 Dec p 25-29
care, 'barefoot doctors' 1974 Apr p 19-27	proceeding inhibition, learning forgetting, retroactive inhibition, recall,
prey-predator relationship, escape response, marine invertebrates, starfish, limpets, scallop, snail, chemical signals 1972 July p 92-100 [1254]	interference theory 1967 Oct p 117-124 [507]
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assessment materials technology, metals, plastics, competition	harmonic functions 1969 Mar p 66-74
196/ Sept p 234-200	probability, law of large numbers, gambler's fallacy, random walk, mathematical proof, philosophy of science 1950 Oct p 44-47
Desiley phlogiston, oxygen, chemistry, life and work of Joseph Fliesley	comes theory uncertainty principle decision theory pure strategy,
1954 Oct p 00 15	card games illustrate theory 1951 Jan p 44-47
primary care, medical care, People's Republic of China, preventive	quality control statistical sampling, sequential analysis
medicine, barelong report, medical education, medical	1953 Mar p 29-33
	statistics, mathematical proof, fundamental reasoning, fundamental research, What is probability? 1953 Sept. p. 128-138
specialties, foreign incured graduates, 1973 Sept p 138–148	Monte Carlo method, Buffon needle problem, random numbers,
primate behavior, chimpanzee, social behavior, tool-using, comparative	mathematics 1955 May p. 90–90
psychology, observation of champanate 1962 May p. 128–138 [463]	galactic clusters, universe, gravitation, cosmology, Monte Carlo
armate societies, protocultural behavior,	method, distribution of galaxies as test of cosmologies
monkey, Japanese macaques, primate societies, p. Oct. p. 96–106 [1345]	psychology, decision making, subjective probability, Monte Carlo
social status 1964 Jan p 56	The second linear cubicctive and objective probability
smile primate biology, Yerkes Laboratones, chimpanzee 1955 Feb p 67-75	1957 Nov p 128–1,21
primate discosts	

games theory, human conflict, zero-sum game, military strategy, use and misuse of game theory 1962 Dec. p 108-118	prokar, otic cells, bacteria, blue-green algae, fossil cells, evolution, Gunflint cherts, origins of life, Precambrian rocks, oldest fossils
chance, odds, calculus of chances, causation, philosophy of science,	1971 May p 30–42 [395]
logician's point-of-view 1965 Oct. p 44-54	cell evolution, cell organelle, chloroplast, endosymbiosis, eukaryotic
antigravity, time reversal, CPT symmetry, antimatter, philosophy of	cells, mitochondria, symbiosis, algae, cilia, flagella, plastids 1971 Aug p 48–57 [1230]
science 1967 Jan p 98–108 Benford's Law, digits, number theory, first-digit distribution	prolactin, ACTH, hormone, sexual characteristics, growth, thyroid-
Beniord's Law, digits, humber theory, first-digit distribution 1969 Dec p 109–120	stimulating hormone, follicle stimulating hormone, androgens,
confirmation theory, hypothesis-testing, logic, inductive proof,	estrogens, secondary sexual characteristics, human physiology,
philosophy of science 1973 May p 75–83	endocrine system, chemical integrators of the body 1957 Mar p 76-88 [1122]
see also subjective probability	proline, collagen, hydroxyproline, collagen fibril, tropocollagen,
probability learning, evolution, intelligence, habit reversal, intelligence compared in five animals 1965 Jan p 92–100 [490]	connective tissue, nature and properties of most abundant protein
compared in five animals 1905 Jan p 92-100 [490] probability of death, life expectancy, historic changes in average length of	1961 May p 120–130
human life 1950 Apr p 58-60	propellant, combustion instability, rocket engine, resonant combustion,
probability, mathematics, combinatorial analysis, normal curve, Brownian	acoustic oscillation 1968 Dec. p. 94–103 properdin globulin, defense against infection 1954 Oct. p. 49
motion, Markov chain, Pascal's triangle, statistics, probability theory 1964 Sept p 92-108	property damage, atomic bomb, blast waves 1953 Apr p 94–102
problem box, animal behavior, intelligence test 1951 June p 64-68	proprietary hospitals, medical economics, medical care, public funds,
problem solving, curiosity, rhesus monkeys, genetic traits, animal	municipal hospitals, voluntary hospitals, metropolitan medical
behavior 1954 Feb p 70=75	economics in New York City 1965 Jan p 19–27
Gestalt psychology, insight, fixation, the 'aha' reaction	propulsion, heat, energy transformation, aerothermodynamics, laminar flow, turbulence, high temperatures propulsion
1963 Apr p 118–128 [476]	1954 Sept p 120–131
games theory, logic, computer theory, algorithms, Turing machine 1965 Nov p 98–106	aerospace technology, Coanda effect, fluid dynamics, aerodynamics,
two heads best 1953 Jan. p 38	nozzles, burners, nature and applications of Coanda effect
procaine, anesthesia, pain, cocaine, surgery, medical research,	1966 June p 84–92
neuropharmacology, pharmacology, psychiatry, research in pain	prospecting, chemical analysis, uranium ore, chemical prospecting 1957 July p 41-47
suppression 1957 Jan p 70-82 process control, chromatography, automatic control, control systems,	see also mineral prospecting and the like, aerial photography, natural
predictive control 1969 June p 112–120	resources, remote sensing
product safety, consumer-product research, consumer protection, energy	prostaglandin, fatty acids, feedback, hormone-like substances, drug
conservation, household appliances, product technology, N B S	therapy, nervous system 1971 Nov p 84–92 [1235]
product technology, consumer-product research, consumer protection,	synthesized 1968 July p 50 prostheses, pharmaceutical industry, F D.A , medical care, medical
energy conservation, household appliances, product safety, N B S	economics, drug prescription, drug research, medical laboratory
1977 Dec p 47-53	services 1973 Sept. p 161–166
production statistics, distribution of wealth, economic development,	protein coat, bacteriophage, genetics, reproduction, tracer experiments,
middle classes, population growth, natural resources, demographic transition 1976 July p 28-35	DNA 1953 May p 36–39 protein-cutting enzymes, catalytic proteins, enzyme action, proteolytic
production workers, labor force, productivity, service workers	enzymes, serum proteins, chymotrypsin, elastase, trypsin
1951 Sept. p 36-41	1974 July p 74–88 [1301]
productivity, labor force, production workers, service workers	protein evolution, cytochrome C, protein structure, respiration, amino- acid substitution, mutation rate, 1.2 billion year record of evolution.
1951 Sept. p 36-41 capital-output ratio, labor force, automatic control, economic and	ancient protein 1972 Apr p 58–72 [1245]
social impact of automatic control 1952 Sept. p 150–160	protein folding, lysozyme, X-ray crystallography, enzyme-substrate
mechanization, capital cost, labor cost 1955 July p 33-35	complex, amino-acid sequence, three-dimensional structure and
employment, pluralistic economy, public sector, private-enterprise sector, U S economy, not-for-profit sector 1976 Dec p 25-29	action of lysozyme 1966 Nov p 78–90 [1055] protein from coal, nutrient for microorganisms 1965 Nov p 52
sector, US economy, not-for-profit sector 1976 Dec p 25-29 professional organizations, elections to National Academy and American	protein molecule, blood plasma, collagen, cell surface antigens,
Philosophical Society 1948 July p 31	glycoproteins, interferon 1974 May p 78-86 [1295]
progenitive family, developed countries, human population, demographic	protein 'overcoat', virus structure, DNA 1954 Dec p 62–70 [32]
transition 1974 Sept. p 122–132 progesterone, fertilization, parthenogenesis, hyaluronidase, zona	virus, tobacco mosaic virus, nucleic acid 'core', dissociation and reconstitution of infective particles 1956 June p 42-47
pellucida 1951 Mar p 44-47	protein production, petroleum-eating microorganisms protein source(?)
pregnancy, uterine muscle, hormone, menstrual cycle, hormone	1965 Jan n 49
inhibition of uterine muscle contraction 1958 Apr p 40-46 [163]	protein separation, electrophoresis, Schlieren scanning, moving-boundary
adrenal gland, pineal organ, biological clock, estrogens, melatonin, serotonin, pineal regulation of sex glands 1965 July p 50-60 [1015]	electrophoresis 1951 Dec p 45-53 protein shape-change, enzyme action, lock-and-key theory, molecular
programmed instruction, computer technology, education, teaching	structure, protein structure 1973 Oct p 52-64 [1280]
machine, individualized teaching 1966 Sept. p. 206–220 [533]	protein structure, protein synthesis, amino-acid sequence, pentide bond
Project Cirrus, weather control, cloud seeding, silver iodide, condensation nuclei, dry ice 1952 Jan. p 17–21	hydrogen bonds, tertiary structure, nature, diversity and function of proteins
project grants, NSF, 'mission-oriented' funding agencies, science	proteins 1950 June p 32–41 [10] chemistry, chemical bond, molecular structure, crystal structure,
funding, institutional grants, science policy, fundamental research,	chemical Linetics, science, chemistry 1900-1950 1950 Sept. p. 32-35
university science, problems in government support of science in the	insulin, amino-acid sequence, first total sequence 1955 May n. 36, 41
Project Tinkertoy, automatic manufacture, electronic equipment,	insulin, ribonuclease, amino-acid sequence, enzyme action, myoglobin, resolution of atomic structure of three molecules
modular design 1955 Aug n 29-33	1961 Feb p 81_92 (80)
projectile, meteorites, cratering, impact crater, fluid impact, effect of	amino-acid sequence, gene-protein colinearity. DNA structure
projecting geometry, Renaissance paintings, Leonardo, Durer, Desargue's	mutation, gene mapping, base 1967 May p. 80, 04 (1074)
theorem, Pascal's theorem, mathematics, projective geometry as	keratin, X-ray diffraction, alpha keratin, feather keratin
systematized by Poncelet and Klein 1955 Jan p 80–86 prokaryote origin, chloroplast, mitochondria, symbiosis, cell organelle	cytochrome C, protein evolution, respiration, amino-acid substitution,
Franklyon Offen, Chioropiast mitochondria ei mbioese pall accordia	mutation and 101 th

prokaryote origin, chloroplast, mutochondria, symbiosis, cell organelle,

DNA, protein synthesis plastids, cell evolution, extra nuclear

1970 Nov p 22-29 [1203]

genetic activity in cell

1972 Apr p 58-72 [1245]

mutation rate, 12 billion year record of evolution, ancient protein

shape-change 1973 Oct p. 52-61 1129	collagen, beta chain, alpha helix, polypeptide synthesis, polymers,
1715 Oct p 52-04 (120	Ulling 30100 Contract and architecture = 6
and an army p	40 1957 Sept in 173184 (7)
protein switch, actin, muscle contraction, muscle fibril, tropomyosin,	amino acids, myoglobin, X-ray crystallography, alpha helix, 3-D
troponin, myosin, calicum in muscle 1975 Nov. p. 36-45 (132)	structure of profess molecule 1961 Dec. n. 96-11 [171]
troponin, myosin, calicum in muscle 1975 Nov. p 36-45 [132 protein synthesis, protein structure, amino-acid sequence, peptide bond,	isheries, aquaculture, food, tilapia, pond culture 1963 May p. 143-152
hydrogen bonds, tertiary structure, nature, diversity and function of	peptide bond, zymogen, trypsin, proteolytic enzymes, hydrolysis
proteins 1950 June p 32-41 [1	f enzymes, structure and function of protein-digesting enzymes
heredity, chromosome, DNA, RNA, nucleoproteins, DNA identified	
agent of heredity 1953 Feb p 47-57 [2]	or the state of th
bacteria, genetic code, DNA, RNA, protein synthesis by bacterial	
DNA-RNA in vitro 1956 Mar p 42-4	evolution, species specificity, computer analysis, cytochrome, amino-
DNA, RNA, genetic code, chromosome, polymers, molecular genetics	, fail and and an and an and an
as of mud-1957 1957 Sept. p. 188-200 [5-	1969 July p 86-95 [1148] grain, plant protein, plant hybrids, agronomy, Triticale
microsome, ribosome, RNA, cytology, recognition of ribosome as site	1974 Aug p 72-80
of protein synthesis 1958 Mar p 118-124 [52	2] agglutination response, cancer, cell membrane, immunology, lecturs
RNA, DNA, recognition of RNA as transcriber of DNA	1977 June p 108–119 [1360]
1959 Dec p 55-6	
antibodies, antigens, immunology, immune response, mutation,	proteolysis, bacteria, infection, viral DNA, DNA sequence, restriction
selection theory of immunity 1961 Jan p 58-67 [78	enzymes, bacterial recognition and rejection of exotic DNA
ribosome, DNA, mRNA, tRNA, nucleus, chromosome, cytology, how	1970 Jan p 88-102 [1167]
cells make molecules 1961 Sept p 74-82 [92	
mRNA, gene transcription, the RNA messenger from gene to protein	hydrolysis, enzymes, structure and function of protein-digesting
synthesis 1962 Feb p 41–49 [119	
DNA, genetic code, base triplets, nucleotide sequence, codon, base	catalytic proteins, enzyme action, protein-cutting enzymes, serum
triplet established as codon 1962 Oct p 66-74 [123 mRNA, tRNA, genetic code, DNA, ribosome, genetic code elucidated,	
amino acid 'dictionary' 1963 Mar p 80-94 [153]	protocultural behavior, primate behavior, monkey, Japanese macaques, primate societies, social status 1976 Oct p 96-106 [1345]
DNA, polyribosomes, RNA, ribosome 1963 Dec p 44-53	
genetic code, tobacco mosaic virus, RNA nucleotides, amino-acid	instability, primordial fireball, nonuniformities, origin of galaxies
sequence, mutation, relation of RNA mutations to amino acid	1970 June p 26-35
changes 1964 Oct p 46-54 [193]	
enzymes, hemoglobin, myoglobin, control systems, feedback,	positron, mesons, photon, neutrino, particle accelerator, nuclear
cooperative enzymes, allosteric enzymes, control of biochemical	binding force, 'Meson Song' 1948 June p 26–39
reactions 1965 Apr p 36-45 [1008]	electromagnetic force, nuclear forces, neutron, mesons, particle
antibiotics, streptomycin, genetic code, ribosome, DNA, RNA,	scattering, high-energy physics, fundamental research, what holds the nucleus together? 1953 Sept. p. 58-63
mutation, 'misreadings' induced by antibiotic alterations of	the nucleus together? 1953 Sept p 58-65 photographic emulsion, particle tracks, cosmic radiation, neutron,
ribosomes 1966 Apr p 102–109	electron, characteristic 'signatures' of particles 1956 May p 40-47
amino acids, DNA, genetic code, mutation, molecular biology, triplets,	antiproton, positron, Bevatron, antimatter, high-energy physics,
RNA, anticodon, ribosomes, triplets, wobble hypothesis 1966 Oct p 55-62 [1052]	postulation and discovery of antiproton 1956 June p 37-41 [244]
brain metabolism, memory, goldfish, learning, conditioned behavior	atomic nucleus, shell model, optical model, high-energy physics, liquid-
1967 June p 115–122 [1077]	drop model, charge exchange, spin-orbit force, resonance 'particles',
amino acids, formylmethionine, ribosome, mRNA, tRNA, initiation of	neutron, structure of the nucleus 1959 Jan p 75-82
protein synthesis 1968 Jan p 36–42 [1092]	atoms, elementary particles, electron, neutron, matter, structure of
insulin, automatic synthesis, amino acids, peptide bond, 'solid phase'	'ordinary matter' 1967 May p 126-134 mesons, particle accelerator, pions, quark, high energy physics.
method of synthesis, polystyrene beads 1968 Mar p 56-74 [320]	nucleons, Regge trajectory, high-energy scattering
rod cells, cone cells, visual cells, autoradiography, renewal mechanisms	1967 Dec p 76-91
chloroplast, mtochondria, symbiosis, cell organelle, DNA, prokaryote	alpha clustering, alpha particles, atomic nucleus, elementary particles,
origin, plastids, cell evolution, extra-nuclear genetic activity in cell	nuclear clustering, neutron, nuclear forces, nuclear surface
[970 Nov p 22-29 [1203]	1972 Oct p 100-108
antibiotics actinomycin DNA-actinomycin binding, mRNA inhibition	antimatter, high-energy physics, colliding-beam accelerator, electron
19/4 Aug D 82-31 [1303]	positron annihilation, parton model, quantum electrodynamics 1973 Oct p 104-113
DNA, genetic code, poliomyelitis virus, RNA, virus multiplication,	not elementary 1951 May p 32
1973 Way D 24-31	proton acceleration, by electron rings 1968 Sept p 84
cell receptors, endocrine hormones, gene regulation, hormonal action,	proton accelerator, CERN-USSR joint project 1968 Sept p 84
steroid hormones 1976 Feb p 32-45 [1534] cell structure, neutron-beam-scattering technique, nbosome, structure	proton beam, particle accelerator, National Accelerator Laboratory
	neutrino beam, synchrotron 1974 Feb p 72-83
molecular structure, 3-D structure of them	proton-beam focusing, electromagnetism, niobium alloys magnetism, superconductors, generation of intense magnetic fields
1,7,00	1967 Mar p 114–123
sRNA and amino acid template positioning 1962 Sept p 108 1963 July p 66	proton currents, in nerve cells 1951 July p 31
	proton decay, transmutation 1970 Dec p 40
origins of life, thermal theory of biological and 1965 Aug p 44	proton magnetic moment, determined with new precision
solid-phase synthesis 1966 Sept p 102	1949 May p 26 proton model, high-energy physics, neutron structure, quark, scattering
initiation formylmethionine 1968 Sept p 86 ribosome 30S subunit	experiments, 'strong' force, virtual particles 1971 June p 60-77
ribosome 30S subunit ribosome, cell organelle, RNA, structure of the ribosome 1969 Oct p 28 [1157]	proton-proton interaction, thermonuclear reaction, carbon cycle, stellar
1909 UCI P 20 [1137]	energy 1950 Jan p 42–45
proteins, amino acids, peptide chain, alpha helix, enzyme catalysis, lock- proteins, amino acids, peptide chain, alpha helix, enzyme catalysis, lock- 1953 Sept p 100-106	heat, thermonuclear reaction, stellar interiors, hydrogen bomb, solar
and-key theory, how is a protein made? 1953 Sept p 100-100	corona, helium reaction, ultrahigh temperatures 1954 Sept p 144-154
and-key theory, how is a protein made polypeptide chain, amino acids, hydrogen bonds, X-ray crystallography, alpha helix 1954 July p 51-59 [31]	colliding beam accelerator, high energy physics, particle interaction,
crystanography, aipma non-	CERN 1973 Nov p 36-44

proton size, findings in particle accelerators	1973 May p 42	schizophrenia, psychotherapy, shock therapy, psychosurgery, the ca
proton spin, spin, high-energy physics, 'strong' for	orce, electron scattering,	for psychotherapy 1953 Jan p 58–63 [
Janes demanded forces on soun	1966 July p 68-78	suicide, epidemiology 1954 Nov p 88
dependence of nuclear forces on spin		LSD, ergot, psychosis, experimental psychoses 1955 June p 34
time reversal, symmetry, parity, charge conser	vation, lambda decay,	LSD, eight, psychosis, experimental psychoses 1999 since p 54
CPT conservation, experiments in time reve	ersal 1969 Oct p 88-101	humor, psychiatry, laughter, psychosis, Freudian interpretation of
proton structure, probed by electrons	1953 Oct p 50	humor 1956 Feb p 31–35 [
proton synchrotron, USSR. 10Bev synchrotron	1957 June p 72	child psychiatry, autism, schizophrenia, emotional deprivation,
CER.N. USSR., US plans	1970 Aug p 44	'mechanical boy' 1959 Mar p 116-127 [4
CERN, Oas R., Os pians		'truth' drugs, psychoactive drugs, psychiatry, emotional illness, clim
proton transfer, chemical reaction, chemical kin-	eucs, anosteric enzymes,	
enzymes, catalysis, chemical equilibrium, re	elaxation methods in	
chemistry	1969 May p 30–41	schizophrenia, emotional illness, psychiatry, psychosis, neurosis,
protoplasts, bacterial-cell wall, lysozyme, homeo	ostasis, bacterial	double bind, taxonomy of emotional illness, family therapy
cytoplasm, bacteriophage, flagella, dissection	on of bacteria by	1962 Aug p 65–74 [4
	1960 June p 132-142	community mental-health centers, mental health, emotional illness,
lysozyme		psychiatric hospital population, psychoactive drugs, psychotherap
'protopsychology', planarian, learning, condition	ned benavior, maze	
running, evidence of learning in a primitive	e nervous system	psychiatry 1973 Sept p 116-
	1963 Feb p 54-62	psychological research, S6 million at Yale 1953 Apr p
protostars, light polarization, interstellar dust, i	nterstellar gas	psychological testing, psychology, perception, science, psychology 1900
processing, again postar and any arrangement of	1967 Oct p 106-114	1950 Sept p 79
microwaves, interstellar matter, maser, hydro		scientists, socioeconomic background, social psychology, psychologi
	1060 Dec = 26 44	study of 64 eminent scientists 1952 Nov p 21
astronomy, energy levels, interferometry	1968 Dec p 36-44	
protozoon, cell differentiation, regeneration, em	ibryonic development,	creativity, psychology, imagination, psychology of imagination
protozoon as model for embryological stud	ly 1953 Mar p 76–82	1958 Sept p 150-
provirus, virus, life cycle, reproduction, bacterio	ophage	achievement, motivation, aspiration, social surveys, self-anchoring
[1954 Mar p 34-37	scale 1963 Feb p 41
hostomanhara anadama manamhanant DMA		see also intelligence test
bacteriophage, virology, recombinant DNA,	1055 4 02 09 (24)	psychology, psychological testing, perception, science, psychology 1900
	1955 Apr p 92–98 [24]	
bacteriophage structure, gene expression, late	ent viruses, virus action,	1950 Sept p 79
coexisting viruses, viral genes in host chroi	mosome	instrument panel, pilot error, ergonomics, designing instrument pane
	976 Dec p 102-113 [1347]	for their users 1953 Apr p 74-82 [4
pseudoscience, university research, ESP, kirlian		conditioned reflex, neurosis, operant conditioning, Pavlov,
Iowa State	1978 Apr p 78	thyroidectomy, stress, emotional behavior, neurosis, conditioned
	• •	
psi particle, antimatter, electron-positron anni-		reflex is shown to be a neurosis 1954 Jan p 48–57 [4
color, quark, high-energy physics, storage		economics, economic psychology 1954 Oct p 31–35 [4
	1975 June p 50–62	learning, spatial perception, innate behavior, perceptual learning,
psychiatric hospital population, community men	ntal-health centers, mental	innate vs acquired space perception 1956 July p 71
health, emotional illness, psychoactive dri		probability, decision making, subjective probability, Monte Carlo
psychiatry, psychoanalysis	1973 Sept. p 116-127	fallacy, gambling, subjective and objective probability
psychiatry, motion pictures, psychiatric films in		1957 Nov p 128–138 [4
populary, motion pictures, psycinatric initis in	1949 Sept p 42-43	
near that a 111 a		creativity, imagination, psychological testing, psychology of
group psychotherapy, emotional illness	1950 Dec p 42-45 [449]	imagination 1958 Sept p 150-
psychoanalysis, humor, laughter, psychosis,		pain, perception, neuropsychology, cultural influence on pain
humor	1956 Feb p 31-35 [435]	perception 1961 Feb p 41-49 [4
ACTH, war, stress, combat fatigue, Korean	war studies of battlestress	auditory illusions, hearing, perception, phonetics, speech perception
	1956 Mar p 31-35	illusions, illusions as clues to organization of perceptual apparatus
anesthesia, pain, cocaine, procaine, surgery,		1970 Dec p 30-33 [5
neuropharmacology, pharmacology, resea		art, Escher's prints, optical illusion, perception of pictures, visual
morophia macology, pharmacology, resca		
femority days and the state of	1957 Jan p 70–82	perception 1974 July p 90–104 [5
'truth' drugs, psychoanalysis, psychoactive o		sports, footracing, human physiology, athletics, metabolism, running
clinical use of psychoactive drugs	1960 Mar p 145~154 [497]	records, Aesop principle 1976 June p 109-
schizophrenia, emotional illness, psychoana	lysis, psychosis, neurosis,	learning, effect of delayed video feedback on maze solving
double bind, taxonomy of emotional illne	ss, family therapy	1961 Jan p
	1962 Aug p 65-74 [468]	rationalizing the threat of thermonuclear horror 1963 Feb p
community mental health centers, mental h	ealth, emotional iliness.	see also behavioral psychology and the like, ethology, learning,
psychiatric hospital population, psychoac		perception and the like
psychoanalysis	1973 Sept p 116–127	
poorly funded	1952 Nov p 40	psychopathology, psychoanalysis, murder, 'prevention of murder'
	1932 NOV p 40	1949 June p 50
manpower shortage	1957 May p 70	psychophysics, learning, visual perception, Fechner's law, Skinner box,
clinical trials of Marsilid	1958 Apr p 52	behavioral psychology, conditioned behavior, pigeon perception
civil rights in New York law	1964 June p 54	1961 July n 113-122 [4
psychoactive drugs, anthropology, medicine, r	nagic, alkaloids, hypnosis	muscle control, muscle spindles, sensory feedback, servomechanisms
psychiatry, lessons from primitive medical	ine 1948 Sept p 24-27	stretch reflex, tendon organ 1972 May p 30-37 [12
tranquilizers, chlorpromazine, reservine, Fr	enquel 1955 Oct p 80-86	psychosis, Hutterites, mental health, standard expectancy method,
'truth' drugs, psychoanalysis, psychiatry, er	notional illness, clinical use	epidemiology 1953 Dec. p. 31–37 M
of psychoactive drugs	1960 Mar p 145–154 [497]	epidemiology 1953 Dec p 31–37 [4
community mental-health centers, mental h	realth emotional illness	emotional illness, mental health, schizophrema, epidemiology, family
psychiatric hospital population, psychoti	harany nei chiates	income status 1954 Mar p 38-42 [4
psychoanalysis		LSD, ergot, psychoanalysis, experimental psychoses
emotional illness server	1973 Sept p 116-127	1955 Tune p. 24
emotional illness, community mental-healt	n centers, skid row, drug	psychoanalysis, humor, psychiatry, laughter, Freudian interpretation
addiction, 'deinstitutionalization' of the		numor 1956 Feb = 21 25 14
DSI choomata a const	1978 Feb p 46-53 [581]	semeophiema, emotional illness, nsichoanalisis, neuchiatri, manage
psychoanalysis, Oedipus complex, emotional	illness 1949 Jan p 22-27	double bind, taxonomy of emotional illness, family therapy
dreams, Freud	1949 May n 44 47 (405)	or emotional filliess, family therapy
murder, psychopathology, 'prevention of n	nurder' 1949 Iune n 50-55	alkaloids hallicinogens mental houlth described Aug p 65-74 [4
Freud, biography and appraisal of Sigmun	d Freud at 82	alkaloids, hallucinogens, mental health, drug addiction, consciousnes
	1949 Oct. p 50-54	anciation, LSD, psilocyoin, mescaline, effects of LSD
schizophrenia, art, a case study	1952 Apr p 30–34	1964 Apr p 29-37 [4
	***** h ?\-34	

psychosomatic illness, stress, alarm reaction, kidney disorder,	desegregation, racularitantes and the second
cardiovascular disease, adrenal gland 1949 Mar p 20–23	desegregation, racial integration, attitude survey, U.S. whites,
stress, theer, executive monkey experiment 1058 Oct p. 05 to	30 reported in 1956
an dety, polygraph, lying, guill, breathing, bulse rate, slan temperature	
ne detector mis-named 1967 fan n 25 31 (50	
coping behavior, rats, stress 1972 June p 104-113 [54	American Negro, 'riffalf theory' versus 'blocked opportunity'
psychosurgery, prefrontal lobotomy, after 5,000 operations in the US, a	7] INCORY 1968 Aug n 15 21 (620)
evaluation 1050 E.B. = 44 47 44	vietnam war, 'silent majority' 1970 June n 17-25 (656)
	desegregation, racial integration. American Negro 11 S, whites
schizophrenia, psychotherapy, psychoanalysis, shock therapy, the case	allilide survey longitudinal attitudas and.
for psychotherapy 1953 Jan p 58-63 [44]	
outlawed in USSR 1953 Oct. p. 6	
psychotherapy, neurosis, learning, stress, experimental neuroses in cats	steering systems, paradox mescapable
1950 Mar p 38-43 [443	1976 June p 21–27 [689]
'chent-centered' therapy 1952 Nov p 66-74 [448	projection in the state of the
schizophrenia, psychoanalysis, shock therapy, psychosurgery, the case	- Barren, megration, tongitudinal attitude study
for psychotherapy 1953 Ian p. 58-63 IAA7	1978 June p 42-49 [707]
community mental-health centers, mental health, emotional illness,	public sector, employment, pluralistic economy, private enterprise sector,
psychiatric hospital population, psychoactive drugs, psychiatry,	productivity. U.S. economy, not-for-profit sector
psychoanalysis 1973 Sept p 116-12	1976 Dec. n. 25-29
training to overcome shortage 1949 Jan p 28	public transportation, see mass transit
for recidivists 1951 Apr p 38	
in groups 1952 Mar p 42	
Ptolemaic system, astronomy, Greek astronomy 1949 Apr p 44-47	
Ptolemy, as fraud 1977 Oct p 75	The state of the s
puberty, see adolescence	
public funds, medical aconomics, medical aconomics and lead aconomics	Puerto Ricans, racial discrimination, segregation, American Negro,
public funds, medical economics, medical care, municipal hospitals,	housing, poverty 1965 Aug p 12–19 [626]
voluntary hospitals, proprietary hospitals, metropolitan medical	Pugwash conference, disarmament, nuclear test ban 1957 Sept p 106
economics in New York City 1965 Jan p 19-27	nuclear warfare 1958 Dec p 52
public health, tuberculosis, tubercle bacillus, mortality rates, economic	talks continue as testing resumes 1961 Nov p 78
development, science history, popularization of well-being, not	pulmonary ventilation, gas exchange, thorax, lung, breathing, alveoli,
therapy, ends 'white plague' 1949 Oct p 30-41	human physiology, vital capacity, mechanics and physiology of
epidemiology, immunology, virology, influenza virus, structure and	breathing, anatomy of lung 1966 Feb p 56-68 [1034]
biochemistry of flu virus 1957 Feb p 37-43	pulsar, white dwarfs, neutron stars, gravitational collapse, angular
environmental pollution, ionizing radiation, fallout, atomic bomb test,	momentum, 'lighthouse' model proposed 1968 Oct p 25-35
radiation damage, mutation, hazards of radiation to society	Crab Nebula, neutron stars, radio source, stellar evolution,
1959 Sept p 219–232 [1214]	
Chaga's disease, 'zoonoses', parasitism, trypanosomiasis, malaria,	gravitational collapse, neutron stars, stellar evolution, solid stars, white
filariasis, leishmaniasis, plague, yellow fever, typhus, epidemiology,	dwarfs, ultradense matter 1971 Feb p 24-31
animal infection and human disease 1960 May p 161-170	cosmic radiation, radio emissions, superdense matter, supernovae
bronchitis, air pollution, emphysema, smog, environmental health, US	1971 July p 74-85
cities, smog and public health 1961 Oct p 49-57 [612]	black hole, gravitational waves, neutron stars, relativity theory, Red
epidemiology, human behavior, bubonic plague, Black Death,	Giant stars, rotational energy, white dwarfs 1972 May p 38-46
population history, long-term effects of plague, Europe 1348-50	binary stars, neutron stars, black hole, quasars, X-ray astronomy, X-
1964 Feb p 114-121 [619]	ray sources 1972 July p 26–37
morbidity, medical care, health statistics, mortality rates, health	black hole, gravitational energy, quasars, rotational energy, radiation in
insurance, U.S. National Health Survey 1966 June p 21-29	universe 1973 Feb p 98-105
noise-induced hearing loss, occupational health, noise pollution,	black hole, interstellar gas, magnetohydrodynamics, neutron stars,
auditory impairment, industrial hygiene, preventing noise-induced	stellar evolution supernovae, X-ray sources 1975 Dec p 38-46
hearing loss, US noise pollution legislation	black hole, cosmic radiation, gamma-ray astronomy, neutron stars,
1966 Dec p 66-76 [306]	satellite astronomy, Cygnus X-1 1976 Oct p 66-79A
abortion, population, birth control, infant mortality, maternal	review of early observations 1968 June p 43
mortality, international comparison of experience with legalization	light source tentatively identified 1968 July p 49
of abortion 1977 Jan p 21–27 [1348]	rotating neutron star (?) 1968 Dec p 50
environmental pollution, fission reactor, nuclear power, radioactive	NP 0532, optical flashes in Crab Nebula 1969 Mar p 46
waste disposal, underground storage 1977 June p 21-31 [364]	speedup, starquake 1970 Feb p 44
	pulsar in Crab Nebula, supernova remnant 1969 Jan p 46
illipioved	X-ray and optical pulses 1969 July p 52
	pulse-code modulation, artificial satellite communication,
Builley appointed dailyour Carretain	telecommunication, data transmission, digital transmission
	1966 Sept p 144-156
THE CONFERENCE OF THE STATE OF	communication technology, digital transmission, binary arithmetic
public opinion, election-fiasco 1948 1948 Dec p 7-11	television, transmission quality, telephone, AM, FM
	1968 Mar p 102-108
and an of attitudes and morale of U.S. Iroops during world war 11,	communication technology, laser, electron optics, Kerr effect, Pockel's
including experiments in racial integration of military units 1949 May p 11-15	effect, polarization, modulators, modulation of laser light
1747 1/147 1/ 11 12	1968 June p 17-23
voters' attitudes, voting behavior, correlation analysis, ethnic groups,	digital transmission, diode laser, fiber optics, glass fiber cables, light-
conclusion tamily, voies in the maring	emitting diode, light-wave communication, lightwave telephone
******	1977 Aug. p. 40-48 [373]
mass communications, elections, attitude survey 1953 May p 46-48	pulse generator, streamer chamber, linear accelerator, track detectors
	new particle detector 1967 Oct p 38-46
	pulse rate, anxiety, polygraph, lying, psychosomatic illness, guilt,
fluoridation, anti-scientific attitudes, voting behavior 1955 Feb p 35-39 [453]	breathing, skin temperature, he detector mis named
fluoridation, anti-scientific attitudes, voling 1955 Feb p 35–39 [453]	1967 Jan p 25–31 [503]
American Negro, US whites, desegregation, attitude survey, racial	pumpkin prodigy, 1,986 ft vine, 20 pumpkins 1952 July p 42
segregation, sociology, longitudinal attitude study	• • •

pupa, insect metamorphosis, juvenile hormone, larvae, demonstration of hormonal control in silkworm moth 1950 Apr. p. 24-28	1952 Mar. p. 47-54 [205] matter, wave-particle duality, energy levels, electromagnetic force,
pupil size, emotion, attitude, eye, attention, effect of attitude on pupil size	nuclear forces, gravitation, field theory, fundamental research,
1965 Apr. p. 46-54 [493] communication, eye, nonverbal communication, effect of pupil size on	corpuscular streams, what is matter? 1953 Sept. p. 52–57 [241] optical pumping, microwave spectroscopy, spectroscopy, photon,
attitude 1975 Nov. p. 110–119 [567]	technique and uses of optical pumping 1960 Oct. p. 72–80
pure metals, metallurgy, crystal structure, zone melting, vacuum furnace	quantum mechanics, special relativity, atomic structure, high-energy
1954 July p. 36-40	physics, science, physics 1900-1950 1950 Sept. p. 28-31 Planck, science history, spectroscopy, black body, resonators, Einstein,
pure strategy, games theory, uncertainty principle, decision theory, probability, card games illustrate theory 1951 Jan. p. 44-47	photoelectric effect, Compton effect, quantum jumps
games theory, decision theory, minimax, mixed stratgey, worst-case	1952 Mar. p. 47–54 [205]
analysis 1955 Feb. p. 78–83	heat, thermodynamics, entropy, equation of state, energy, black body
Purex process, fission reactor, nuclear fuel, nuclear power, reprocessing	radiation, temperature, What is heat? 1954 Sept. p. 58-63 superfluidity, helium 1, helium 2, seond sound, low-temperature
1976 Dec. p. 30-41 Purkinje cells, brain, brain circuitry, cerebellar cortex, neuronal	physics, liquid helium properties 1958 June p. 30–35 [224]
networks, mossy fibers 1975 Jan. p. 56–71 [1312]	maser, microwave amplification, stimulated emission, coherent
purple bacteria, phototropism, photosynthesis, sulfur bacteria	radiation, principles and uses of maser 1958 Dec. p. 42–50 [215]
1951 Nov. p. 68-72 purpoises, fish, swimming, laminar flow, turbulence, how fishes and sea-	atom, Pauli, exclusion principle, theoretical physics, antimatter, structure of atoms and nuclei 1959 July p. 74-86 [264]
going mammals swim 1957 Aug. p. 48–54 [1113]	gravitation, wave-particle duality, relativity theory, space-time
purpura, congenital anomalies, virus disease, vaccine, teratogenesis,	continuum, uncertainty principle, P.A.M. Dirac view of physics
pregnancy, congenital rubella, rubella 1966 July p. 30-37 Pygmies, Congo, social anthropology, Bambuti, symbyotic relationship of	1963 May p. 45-53 chemical bond, noble gases, compounds of 'inert elements'
jungle Pygmies and pastoral-village peoples	1964 May p. 66–77
1963 Jan. p. 28-37 [615]	superfluidity helium, vortex ring, macroscopic quantum effects,
pyrogenesis, aromatic hydrocarbons, molecular structure, polycyclic aromatic compunds 1976 Mar. p. 34-45	quantized vortex rings 1964 Dec. p. 116–122 superconductors, Meissner effect, magnetic field, magnetic
pyrolysis, fire, fire protection, 'flashover', flammability standards	impermeability, quantized vortexes, quantum effects in
1974 July p. 21–27	superconductors 1965 Oct. p. 57–67
pyrophoricity, flammable metals 1957 Mar. p. 64 pyruvic acid, see: citric-acid cycle	electric current, Josephson effects, superconductivity, microwave emission, tunnel junction, confirmation and applications of
Pythagorean doctrine, musical scale, tone ladder, music and mathematics,	Josephson effects 1966 May p. 30–39
harmonic proportions, Kepler, vibrating string 1967 Dec. p. 92-103	electrical conductivity, Fermi surface, semiconductor, materials
Pythagorean theorem, time, special relativity, clock paradox 1963 Feb. p. 134-144	technology, charge carriers, electron mean free path, electrical properties of materials 1967 Sept. p. 194–204
1,700 years before Euclid 1950 Mar. p. 28	atomic nucleus, atomic structure, exotic atoms, kaonic atoms, muonic
	atoms, particle accelerator, pions, high-energy physics
	1972 Nov. p. 102-110 crystal energetics, crystal structure, metallurgy, conduction electrons,
O	quasi-particle concept, Fermi surface, metal properties
	1973 Jan. p. 88–98
quackery, 'radioactive' nostrums 1949 Oct. p. 27 quality control, statistical sampling, sequential analysis, probability	Kerr gate, laser mode-locking, molecular motion, Raman clock, ultrafast phenomena, picosecond molecular processes
1953 Mar. p. 29-33	1973 June p. 42–60
quantized vortexes, superconductors, Meissner effect, quantum	hadrons, heavy leptons, J particle, high-energy physics, quark
mechanics, magnetic field, magnetic impermeability, quantum effects in superconductors 1965 Oct. p. 57–67	hypothesis, intermediate vector bosons 1976 Jan. p. 44-54 electromagnetic radiation, photon, Coulomb's law, mass of photon
quantum, elementary particles, parity, 'weak' force, symmetry, particle	1976 May p. 86–96
interaction, right and left-handed particles breakdown of parity	electromagnetic radiation, electron-hole liquid, exciton, semiconductor
1957 Apr. p. 45–53 [231] quantum chemistry, molecular structure, electron shells, computer	1976 June p. 28–37 black hole, gravitational fields, relativity theory, event horizon
modeling, molecular orbits, computer graphics 1970 Apr. p. 54-70	1977 Jan. p. 34-40 [349]
quantum effects, superconductivity, magnetism, magnetic vortexes, superconductors, macroscopic quantum effect photographed	isotope separation, laser-excitation technique, light absorption,
1971 Mar. p. 74–84	uranium enrichment 1977 Feb. p. 86–98 [354] amorphous semiconductors, nonperiodic systems, Ovshinsky devices,
superfluidity, helium 3, liquid phase, gas phase, solid state physics,	semiconductor technology, switching phenomena
quantum fluids, phase transitions 1976 Dec. p. 56-71 quantum electrodynamics, radar, microwaves, spectroscopy, molecular	1977 May n. 36-48 (363)
bonds, coherent radiation, resonance absorption, energy levels,	alkali-metal anions, alkali-metal cations, cryptands, electron orbitals,
	solvated electrons
quantum jumps, time-keeping, foundation of maser, laser technology	solvated electrons 1977 July n 02 105 (260)
quantum jumps, time-keeping, foundation of maser, laser technology	charmed quarks, hadrons, high-energy physics, quark, charm
quantum jumps, time-keeping, foundation of maser, laser technology 1948 Sept. p. 16-23 positronium, positron, electron, 'model atom' 1954 Dec. p. 88-92 antimatter, high-energy physics, colliding-beam accelerator, electron-	charmed quarks, hadrons, high-energy physics, quark, charm 1977 Oct. p. 56–70 [388] maser, cosmic masers, hydroxyl maser, water maser, maser char
quantum jumps, time-keeping, foundation of maser, laser technology	charmed quarks, hadrons, high-energy physics, quark, charm

quantum numbers, baryons, high-energy physics	s, hadrons, leptons.	Ottoobus Indiana beause for the state of
mesons, quark continement, bag model, in	frared-slavery model	Quechua Indians, brown fat, altitude adaptation, acclimatization, deer
string model	1076 Nov 40 C	mice, hemoglobin, metabohe rate, exercise, human physiology at high altitude
quantum solid, crystal structure, helium, solid st	Ale physics wearnous	
motion, solid helium, physical and theoreti	cal properties	queen substance, pheromones, insect physiology, sexual behavior,
	1967 Aug - 94 04	muskone, social behavior, ants, Gypsy moths, nuce
quark, mesons, particle accelerator, pions, proto	in high-energy shares	1903 May p 100-114 [15/]
nucleons. Regge trajectory, high-energy sca	ittering	sexual development 1956 Apr p 66
	1967 Dec n 76 gr	queues, traffic, mathematics, operations research, computer time sharing
high-energy physics, proton model, neutron si	flicture scattering	
experiments, 'strong' force, virtual particles	1971 June n 60 77	quick clay, clay, landslide, formation and properties of quick clay
dual-resonance model, high-energy physics, hi	adrons light-stone	1303 1404 p 132-142
invory, strong interactions	1975 Feb 5 61 67	quicksand, fluidized sand, alkali bog 1953 June p 97-102
antimatter, electron-positron annihilation, I p	article nei narticle	and an anti-
charm, color, high-energy physics, storage r	inge vermal particle,	tessellation, knots, primitive mathematics 1948 Dec p 44-49
g g projecto, atomage .	1975 June p 50-62	quinine, alkaloids, plant physiology, morphine, strychnine, 'hemlock',
charmed quarks, hadrons, high-energy physics	mantum mechanics	i b comment and a control booking, both in the control between the control by the
charm	1977 Oct p 56-70 [388]	toxins in plant physiology 1959 July p 113-121 [1087]
high-energy physics, 'S U (3)' extended by 'S	11 (6) 1965 Mag = 63	the state of the s
strangeness and charm	1975 July p 45	archeology 1971 Nov p 72-81
lucking in 'jets' from particle collisions?	1978 Feb p 84	
quark confinement, baryons, high-energy physics	hadrone lentone	
mesons, quantum numbers, bag model, infra	red clavery model	R
string model		1/
models	1976 Nov p 48-60	. 156. 1
quark hypothesis, charmonium, charmed quarks,	1976 July p 60	rabbit plague, myxomatosis, Australia, pest control 1954 Feb p 30-35
gauge theory, hadrons, leptons, 'color' and 'l	nigh-energy physics,	Australia uses myxomatosis 1952 Sept. p 78
gauge meery, nations, reprove, editor and i		rabbits, fleas, parasitism, host parasite relationship, hormone estrus,
hadrons, heavy leptons, J particle, high-energy	1975 Oct p 38-50	adaptation, the rabbit flea and rabbit hormones
mechanics, intermediate vector bosons		1965 Dec p 44-53 [1027]
in 18th century	1976 Jan p 44-54	communication, territorial behavior, pheromones, scent glands,
quark in trouble, hadron/muon ratio	1976 Nov p 70	pecking order, territorial marking by rabbit
	1974 Aug p 46	1968 May p 116-126 [1108]
quark proliferation, a fourth and a litth	1977 Oct p 74	race, Rh factor, human evolution, Rh negative gene, Ro gene, blood
quartz, piezoelectricity, crystal structure, ultrason		typing 1951 Nov p 22-25
and uses of piezoelectricity quasar 3C147, most distant object in space	1949 Dec p 46-51	anthropology, human evolution, steatopygia, chimate, human
	1964 May p 59	migration, population, genetic variation, ancient migration and human diversity 1960 Sept. p. 112-127 [604]
quasars: quasi-stellar objects quasars, radio source, radio astronomy, occulation	notteens andurate	human diversity 1960 Sept p 112-12/1004)
fixing of radio-source position, occulation by		intelligence, whites, IQ, heredity, American Negro, heredity, population genetics, science policy, social psychology, twins,
mang of fadio-source position, occuration by	1966 June p 30-41	environment, racial discrimination 1970 Oct p 19-29 [1199]
cosmic radiation, radio galaxies, galactic halo, r		human population, genetic drift, population genetics, serum protein
source, extragalactic radio source as origin of		analysis 1974 Sept. p. 80-89
source, extragalactic fadio source as origin or	1966 Aug p 32-38	racial discrimination, blood typing, Judaism, religious persecution, social
spectroscopy, recession velocity, cosmological d		evolution, genetic drift, population genetics, Jewish community of
whether quasars are intra- or extra-galactic	, , , , , , , , , , , , , , , , , , ,	Rome 1957 Mar p 118-128
	766 Dec p 40-52 [305]	cultural anthropology, genocide, Tasmanians, Yumbri, Yamana,
cosmological distance	1967 Dec p 49-50	vanishing primutive cultures 1957 May p 39-45
Seyfert galaxies, galactic nucleus, radio emission		cities, social geography, American Negro, segregation metropolitan
spectroscopy, Doppler effect, red shift, shell hyp	othesis, radio source,	segregation 1957 Oct p 33-41
absorption lines clue to quasar structure	1970 Dec p 22-29	Amerindian, genocide, cultural assimilation, civil rights, persisting
cosmology, red shift, universe expansion	1971 May p 54-69	identity of Amerindians 1960 Feb p 37-45
binary stars, neutron stars, black hole, pulsar, X-	ray astronomy, X-ray	segregation, American Negro, Puerto Ricans, housing, poverty
sources	1972 July p 26-37	1965 Aug p 12-19 [626]
black hole, gravitational energy, pulsar, rotations	il energy, radiation in	black power, American Negro, group identity, economic power, ethnic
universe	1973 Feb p 98~105	groups, slavery, social deprivation 1967 Apr p 21-27 [633]
galactic center, Milky Way, radio source, Sagittai	nus A, Seylert	ghetto, unemployment, urban riots, public opinion, social class, American Negro, 'riffrasí theory' versus 'blocked-opportunity'
galaxies, spiral galaxies	1974 Apr p 66-77	
BL Lacertae objects, galaxies, radio astronomy	27 4 27 20 (271)	theory 1968 Aug p 13-21 [050] mtelligence, race, whites, IQ, heredity. American Negro. heredity.
	77 Aug p 32-39 (372) 1964 Aug p 38	population genetics, science policy, social psychology, twins,
hypotheses advanced	1964 Nov p 58	environment 1970 Oct p 19-29 [1199]
some twinkle	1964 Nov p 58	adolescence, family, alienation, divorce, poverty, infant mortality,
solar wind and quasars' twinkle	1966 Feb p 50	crime, suicide, drug addiction, changes in American family structure
recession speed and variability	1966 July p 54	[974 Aug p 53-61 [561]
absorption lines	1968 May p 50	prejudice, American Negro, public opinion, attitude survey. U S
diameters measured	1971 Jan p 47	whites, segregation, integration, longitudinal attitude study
life expectancy short BL Lacertae, an exploding galaxy	1974 May p 60	1978 June p 42-49 (707)
1 1 0.	1976 Oct p 64	even in Brazil 1952 Nov p 48
red shift quasi-particle concept, crystal energetics, crystal stru quasi-particle concept, crystal energetics, crystal stru	cture, metallurgy,	technological unemployment, U.S. Black unemployment 1967 Sept. p. 102
quasi-particle concept, crystal energeties, cr		racial integration, desegregation, public opinion, attitude survey, U.S.
properties	1973 Jan p 88-98	whites, American Negro, longitudinal attitude study reported in
avaci-stellar objects, see quasars		1964 July p. 16-23 (623)
quasi-stellar radio sources, see quasars	mathamatics	desegregation, American Negro, U.S. whites, attitude survey, public
quasi-stellar radio sources, see quasars quaternions, complex numbers, non-commutative als quaternions, complex numbers, his and work of	William Rowan	opinion longitudinal attitudes study 1971 Dec p 13-19 [673]
quaternions, complex numbers, note-commutative as high-energy physics, Hamilton, life and work of	1954 May p 82-87	
Hamilton	*** * * * * * * * * * * * * * * * * *	

	1.Ch.ton	mutation, high-energy radiation, nuclear medicine, X-ray, no
racial segregation, public opinion, American Negro, US whites, desegregation, attitude survey, sociology, longitudinal attitude study		threshhold to biological damage by radiation
desegregation, attitude survey, sociology, tolight	1956 Dec p 35-39	1960 Apr p 142–153 [71]
71 P 3	1956 Oct p 66	DNA replication, ultraviolet radiation, mutation rate, thymune dimer,
US attitudes effect of mass media on desegregation	1957 Nov p 77	repair of DNA 1967 Feb p 36-43
radar, microwaves, spectroscopy, molecular bonds, co		aging, free radicals, electron-spin resonance, chemical bond,
resonance absorption, energy levels, quantum ju	mps. quantum	spectroscopy, effects of free radicals on living systems
electrodynamics, time-keeping, foundation of m	aser, laser	1970 Aug p 70-83 [335]
technology	1948 Sept p 16-23	radiation effects, on reactor materials 1954 Oct p 47
air transport, air traffic control	1952 June p 64-65	radiation energy, celestial energy, cosmological 'hangups', energy cycle,
microwaves, optical properties, Maxwell's equation		power, entropy per unit energy, gravitational energy, stellar
tube, klystron, magnetron, waveguides, commun	ucation	evolution, thermonuclear energy 1971 Sept p 50-59 [662]
, , , , , , , , , , , , , , , , , , , ,	1952 Aug p 43-51	biosphere, energy cycle, photosynthesis, respiration, power, solar
weather observation, cloud structures	1953 July p 34-38	radiation, terrestrial radiation 1971 Sept p 88–100 [664]
microwaves, klystron, particle accelerator	1954 Mar p 84-90	radiation exposure, permissible limits reduced 1960 Nov p 91
hurncanes, typhoons, meteorology	1954 June p 32-37	radiation hazards, 'atoms for peace', gene mutation, safety standards,
airport, air traffic control, transportation industry	1960 Dec p 47~55	Geneva biology 1955 Oct p 38–42
solar system, astronomical unit, space exploration	Venus probes,	radiation pressure, light, sound wave pressure, photophoresis, analogy
Doppler effect, Earth-Sun distance more precise	ely measured	and distinction, light- and sound-wave pressure
	1961 Apr p 64-72	1957 June p 99–108
aerial mapping, aerial photography, airborne rada	r, all-weather	gas separation, laser, laser-light pressure, isotope separation, 'optical bottle', atomic and molecular beams 1972 Feb p 62-71
imaging, radar holography, side looking radar	77 0 04 05 12861	bottle', atomic and molecular beams 1972 Feb p 62–71 radiation safety, A E C report 1950 Sept p 46
	77 Oct p 84-95 [386]	radio, communication, frequency modulation, Armstrong, life and work
advances in technology	1957 Oct p 56	of Edwin H Armstrong 1954 Apr p 64–69
'angel' activity	1959 Mar p 66 1967 Aug p 40	radio telescope, interferometry, helical antenna 1955 Mar p 36-43
side-looking radar surveys of vegetation	1972 Jan p 52	Earth magnetic field, lightning, ionosphere, 'whistlers', radio echoes of
for taxung airplanes radar astronomy, radio telescope, solar system, radio		lightning 1956 Jan p 34–37
600 ft telescope	1960 Jan p 45-51	communication technology, ionosphere, microwave transmission,
interferometry, solar system, moon, planets, iono		troposphere, ionospheric and tropospheric scattering
and promise of radar astronomy	1960 Aug. p 50-59	1957 Jan p 46-51
Doppler effect, planetary motion, delay-Doppler		science history, electromagnetism, 'Hertzian' waves, electromagnetic
Venus, microwaves	1968 July p 28-37	spectrum, Heinrich Hertz biography 1957 Dec p 98–106
first radar echoes from Venus	1959 May p 74	artificial satellite, communication satellite, telecommunication, orbital
unambiguous radar echoes from Venus	1961 May p 82	motion, Echo II satellite, satellite communication systems,
radar blackout, atomic warfare, arms race, counterfor	orce strategy, ABM,	consideration of alternatives 1961 Oct p 90-102
ICBM, US ABM system capabilities and limi		triode, De Forest, vacuum tube, Marconi, Fleming valve, diode,
	1968 Mar p 21-31	rectification, De Forest's 1906 contributions 1965 Mar p 92-100
radar domes, building construction, pneumatic buil		rectification, thermionic tube, diode, Fleming, electron tube, history of
technology	1956 June p 131–138	science, England, Edison, lamps, Deforest 1969 Mar p 104-112
radar holography, aerial mapping, aerial photography	ny, airboine radar, an-	communication networks, communication satellite, electronic switching, multiplexing, network theory, communication, telephone
weather imaging, radar, side looking radar is radar pioneer, \$140,000 for Watson Watt	1952 Mar p 38	systems, television systems 1972 Sept p 116–128
radar tracking, tornadoes, meteorology, thermal up		communication, bouncing microwaves 1955 Sept p 69
forecasting	1958 May p 31-37	communication, millimeter-wave region proposed 1970 Dec p 42
radiation, crystal structure, neutron, nuclear fission		radio-absorption, Doppler effect, hydroxyl radical, microwaves, galaxy,
	56 Aug p 76-84 [245]	gas clouds 1965 July p 26-33
continental drift, speciation, reptile evolution, ge	enetic convergence,	radio astronomy, radio map of Galaxy, solar radio output, extragalactic
Gondwanaland, Laurasia, mammalian evoluti	on, supercontinent	radio waves, status and expectations of the new astronomy
breakup and animal diversification 19	69 Mar p 54-64 [877]	1949 Sept p 34-41
see also high energy radiation, X-ray		hydrogen, interstellar matter, 21-centimeter line 1953 Dec p 42-46
radiation belts, artificial satellite, solar particles, co	smic radiation,	Milky Way, spiral galaxies, interstellar hydrogen 1955 May p 42-48
telemetry, Van Allen belts, geomagnetism, spi	ter	Clouds of Magellan, spiral galaxies, galactic structure, resolution of structure of nearest galaxies 1956 Apr p 52-58
mapping of radiation belts by Explorer satelli	165 159 Mar p 39-47 [248]	structure of nearest galaxies 1956 Apr p 52-58 galaxy, interstellar hydrogen, radio star, the radio sky
artificial satellite, geomagnetism, Lorentz force,		1956 July p 32–37
radiation, Van Allen belts, aurora, physics of		galactic clusters, colliding galaxies, powerful signals may extend reach
	1963 May p 84-96	of astronomy 1956 Sept p 125-134
radiation chemistry, ammonia, solvated electrons,	radiolysis, ionization,	spectroscopy, hydrogen, absorption line, interstellar matter, 21-
sodium, alkali metals	1967 Feb p 76-83	centimeter wave absorption 1957 July p. 48-55
radiation counters, particle counters, high energy p		artificial satellite, orbital motion, interferometry, antennae, tracking
Work	1950 July p 40-43	station, satellite tracking 1958 fan n 23.20
radiation damage, atomic bomb test, radiation dar	nage, ionizing	spiral structure, interstellar hydrogen, galaxy, galactic nucleus,
radiation, leukemia, immune response, fallou whole body irradiation	1959 Sept p 117–137	mapping the local Galaxy 1959 Aug p 44-51 [250]
environmental pollution, ionizing radiation, fall	lout atomic homb test	galaxy, spiral arms, interstellar hydrogen, mapping the spiral arms of the local Galaxy
mutation, public health, hazards of radiation	to society	radio telescope, solar system, radar astronomy, steerable 600 ft
1959	Sept p 219-232 [1214]	telescope 1960 Jan p 45–51
chromosome breakage, ionizing radiation, muta	ition, cytology,	Jupiter, Venus, solar system, planets, measuring planetary surface
radiation damage to living cell	959 Sept p 94-100 [57]	temperature 1961 May n 59 65
cancer therapy, nitrogen mustard, carcinogenes	is, mutation, nuclear	garactic evolution, interstellar hydrogen, microwaves, hydrogen in
medicine, chemical imitation of radiation inj		galaxies correlated with their structure 1963 Tune n 24 106
	1960 Jan p 99-108	red sint, radio galaxies, synchrotron radiation, lunar occultation,
		quasars found to be extra-galactic 1062 Dec. = 54.69
		definition and star, Jodrell Bank radio telescope, solar flares,
		definitive evidence of radiowaves from stars 1964 Aug. p 13-19

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radio source, quasars, occulation patterns, ac	curate fixing of radio-	cosmic radiation, radio galaxies, quasars, g	al.,
source position, occulation by moon	1966 June p 30-4	astronomy, extragalactic radio source as	anache naio, radio
cosmic radiation, ratho galaxies, quasars, gal extragalactic ratho source as origin of cost	actic halo, radio source,		1966 App n 22 20
Series and apply subject as official of cost		spectroscopy, Doppler effect, red shift, qua	sars shell hunathoric
galactic radio sources, radio galaxies	1966 Aug p 32-38	absorption lines clue to quasar structure	1970 Dec n 22 26
BL Lacertae objects, galaxies, puasars	1975 Aug p 26-39 1977 Aug p 32-39 [372	Crab Nebula, neutron stars, pulsar, stellar	evolution, gravitational
electric smog	1955 Aug p 47	i conapse, angular momentum	1971 Jun m 48 60
deuterium in interstellar space	1956 Jan p 46	intercontinental interferometry, interferom base interferometry	etry, radio telescope, long
U.S. National Radio Observatory	1957 Jan p 64	galactic center, Milky Way, quasars, Sagitta	1972 Feb p 72-83
US National Radio Observatory	1958 Apr p 50	spiral galaxies	1974 Apr p 66-77
source of Jovian radio signals	1958 June p 46	explosion, not collison, energy	1961 Sept p 88
interference from telecommunications	1959 Nov p 88	brightest galaxies	1963 May p 76
telecommunication, channels reserved for ast		'vanable galaxy'	1963 July p 67
extragalactic radio sources	1959 Dec p 82		1965 Mar p 54
spectrographic technology	1960 May p 96		ia, galactic collision, with
18 radio galaxies	1960 Aug p 70 1961 Mar p 86		
diameter, orbit, velocity of Venus measured	1961 July p 67		1953 Jan p 17-21
steerable telescope	1961 Oct p 82	gałaxy, radio astronomy, interstellar hydroge	
arms race, defense of Project West Ford	1961 Nov p 78	synchrotron radiation, supernovae, Crab Nel	1956 July p 32-37
Project West Ford fizzles	1961 Dec p 74	of the state of th	1957 Mar p 52-60
US Project West Ford	1962 June p 78	flare stars, radio astronomy, Jodrell Bank rad	lio telescope, solar flares.
600-ft telescope shelved	1962 Sept p 100	definitive evidence of radiowaves from star	
synchrotron radiation	1962 Nov p 72	huge diameters	1953 Mar p 50
telecommunication, UHF TV bands to radio		veiled by hydrogen clouds	1954 Sept p 78
	1963 July p 65	a variable source	1955 Sept p 69
radio channels reserved celestial maser	1964 Apr p 62	radio telescope, interferometry, radio, helical an	
steerable radio telescope	1966 Jan p 48		1955 Mar p 36-43
radio communication, upper atmosphere, stratos	1967 Aug p 38	solar system, radar astronomy, radio astronom	
aurora, noctilucent clouds, meteorology	1949 Jan p 30-39	telescope	1960 Jan p 45-31
radio discovery, electromagnetism, electron disco	very induction coil X-	radio source, intercontinental interferometry, interferometry	1972 Feb p 72-83
ray discovery, science history	1971 May p 80–87	Jodrell Bank	1952 July p 36
radio divining rod, water table, depth of water tab	ole by radio	Ohio State University model	1956 Apr p 60
•	1956 May p 59	radio transmission, 'obstacle-gain'	1953 Dec p 56
radio echo, meteorites, ion cloud, spectroscopy	1951 June p 22-28	radioactive decay, chemical bond, 'hot atom' chei	nistry
radio emissions, stellar magnetic fields, cosmic ra			1950 Mar p 44-47
megnetohydrodynamics, electrical induction	, electricity in space 1952 May p 26~29	californium, table of elements, einsteinium, fen elements, transuranium elements, mendelevi	mium, synthetic
Sun, sunspots, magnetic storms, corpuscular st		101	956 Dec p 66-80 [243]
san, sanspois, magnetic storius, corpusculai si	1955 June p 40-44	isotope dating, solar system, meteorites, Earth	crust, age of solar
Jupiter, Van Allen belts, magnetic field, origin		system 1	957 Apr p 80-94 [102]
	1964 July p 34-42	alpha decay, transurantum elements, isotopes, n	luclear stability, beta
cosmic radiation, pulsar, superdense matter, su	pernovae	decay, 'synthetic' elements, periodic table, the	e 'superheavy' elements
	1971 July p 74-85	beyond 103	1969 Apr p 56-67
radio galaxies, universe, Cassiopeia, Cygnus A, re-	d shift, Crab Nebula,	fission-track dating, geochronology, glass age, n	1976 Dec p 114-122
colliding galaxies	1956 Sept p 204-220	age, pottery age, uranium fission isotopes, elements, atomic nucleus, 'synthetic' el	ements exptic isotopes
gravitational collapse, nonthermal emission, sur radiation, intensity of galactic radio emission		of light elements 197	78 June p 60-72 [3010]
	962 Mar p 41-49 (278)	radioactive nuclei, spectroscopy, age of elements, a	ge of universe, element
red shift, synchrotron radiation, radio astronom		formation, mass spectroscopy, nucleochronole	gy, stellar evolution,
ouasars found to be extra-galactic	1963 Dec p 54-62	supernovae	1974 Jan p 69-77
cosmic radiation, synchrotron radiation, galaxy	M 82, exploding	radioactive tracer, see tracer isotopes	of aurosa damand
galaxies, proposed origin of cosmic rays	1964 Nov p 38-47	radioactive waste disposal, water pollution, biologic sewage treatment stream pollution	1952 Mar p 17-21
cosmic radiation, quasars, galactic halo, radio as extragalactic radio source as origin of cosmic	rove	environmental pollution, fission reactor, nuclear	
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cosmic background radiation, evolutionary university	erse, universe	radioactivity, Earth heat, Earth mantle, convection of	urrents, Earth core.
expansion, 'big bang' theory	1974 Aug p 26-33	heat flow	1950 Dec p 54-57
palactic radio sources, radio astronomy	1975 Aug p 26-35	atomic theory, Rutherford-Soddy theory, element science history, radioactive decay transmutation	transmutation,
energy from gravitational collapse	1963 Mar p 78	alchemy'	1966 Aug p 88-94
galactic tails	1973 Sept p 72 1978 Apr p 78	radioautography, isotones, molecular biology, cytolog	y use of
black hole in M87? radio map of Galaxy, radio astronomy, solar radio	nutnut. extragalactic	radioicotones in biological research	1949 Feb to 30-41
radio waves, status and expectations of the nev	v astronomy	poisons, ionizing radiation, 'bone-seekers', chelate	scintillation counter
	1343 3601 0 34-41	phloem, xylem, plants, sap circulation, transport of	1955 Aug. p. 34-39
radio observatory, Green Bank observatory, tornado	bes, U.S. National	tissue 195	9 Feb p 44-49 [53]
		ascites tumor, isotopes, cell life cycle, cellular autob	iography
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	78 Jan p 74–84 [394]	radiocarbon dating, paleobotany, carbon 14, archeolog	ucal dating, pollen
	1950 May p 28	analysis Stonehenge, built 4,000 years ago, 2,000 years before	1902 1 00 0 24-28
radio signal, sent around the world radio source, quasars, radio astronomy, occulation to	satterns, accurate	Stonenenge, built 4,000 years ago, 2,000 years before	1953 June p 25-31
fixing of radio-source position, occulation by n	1966 June p 30-41	climate dendrochronology 1972 Ma	ıy p. 92-100 [1250]
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radiocarbon dating archeology, agricultural revolution, Jarmo site, cave to village at Jarmo 1952 Oct p 62-66	incompleteness theory, algorithms, mathematical proof, algorithmic definition of randomness 1975 May p 47-52
radioisotope, tritium, cosmic radiation, lithium, nuclear reactor, tracer	random walk, probability, law of large numbers, gambler's fallacy, mathematical proof, philosophy of science 1950 Oct p 44-47
chemistry 1954 Apr p 38-40 radioisotope dating, isotope dating, lead isotopes, strontium-rubidium	rangeland, land use, grazing, forestry, agricultural resources, land
ratios, geological and paleontological time dated by radioactive	management, U.S. Western states 1970 Feb p 88–96 [1169] rapid-eye-movement sleep, see REM sleep
decay 1949 Aug p 48-51 radiolysis, ammonia, solvated electrons, ionization, radiation chemistry,	rare-earth ions, laser, liquid lasers, solvation shell, chelate cage,
sodium, alkalı metals 1967 Feb p 76-83	comparison of liquid, gas and solid-state lasers 1967 June p 80-90 rare earths, fission products, table of elements, abundance in fission
radionuclides, microanalysis, neutron activation, trace elements, decay properties 1967 Apr p 68-82	products draws attention to rare earths 1951 Nov p 26-30
radiosonde, meteorology, rain gauge, anemometer, barometer,	Raschig synthesis, hydrazıne, rocket fuel, reducing agent 1953 July p 30–33
hygrometer, instrumentation of meteorology 1951 Dec p 64-70 radiotherapy, cancer therapy, isotopes, X-ray, ionizing radiation,	rats, group behavior, crowding, population density, comparative
dosimetry, roentgenology, nuclear medicine, radiation use in	psychology, social pathology of crowding
medicine 1959 Sept p 164-176 bone marrow transplantation, kidney transplant, immune response,	1962 Feb p 139–148 [506] aggression, animal behavior, social behavior, territorial behavior,
circumventing immune response 1959 Oct p 57~63	natural history, Rattus rattus, Rattus norvegicus 1967 Jan p 78-85
radiowaye, electrical induction, science history, Henry, life and work of Joseph Henry 1954 July p 72-77	brain development, environmental stimuli, learning, memory, sensory deprivation 1972 Feb p 22–29 [541]
light velocity, phase velocity, plasma, free-electron density, 'things that	coping behavior, psychosomatic illness, stress
go faster than light' 1960 July p 142–152 carner-wave modulation, coaxial cable, communication technology,	1972 June p 104–113 [544] animal communication, brown rat 1977 May p 106–116 [577]
electromagnetic spectrum, fiber optics, communication channels,	memory, brain organization, hippocampal system, spatial memory
bandwidth, noise 1972 Sept p 98–113 radium, uranium fission, nuclear fission, fission products, 'synthetic'	1977 June p 82–98 rattlesnake, pit viper, fangs, high-speed photography, rattlesnake 'bite' is
elements, isotropy, transuranium elements, science history, discovery	a stab 1953 Oct p 100–102
of fission 1958 Feb p 76-84 railway, mass transit, underground transport, pneumatic propulsion,	cichlid fish, marine iguana, fighting behavior, animal behavior, comparative psychology, oryx 1961 Dec p 112–122 [470]
gravity propulsion, transport by 'pedulum' train 1965 Aug p 30-40	Rayleigh waves, sound waves, communication technology, crystal surface
traffic patterns, cities, commutation, mass transit, automobile, transportation, Bay Area Rapid Transit system as model for urban	waves, electronic equipment, signal processing, ultrasonic waves 1972 Oct p 50-68
transportation 1965 Sept p 162–174	rayon, synthetic fiber, nylon, synthetic macromolecules, cellulose, glass,
rain, high-speed photography, streamlining 1954 Feb p 64-68 meteorology, condensation nuclei, ocean foam, salt particles, cloud	man-made textile fibers 1951 July p 37-45 cellulose, forest products, crystal structure, lignin, polymers, paper,
physics, seasalt and rain 1957 Oct p 42-47	polysaccharides, overview of natural polymer 1957 Sept. p 156-168
sea floor spreading, volcanoes, sea water composition, geochemical cycle, salmity, carbonate, hydrologic cycle, why the sea is salt	forest products, wood pulp, paper, cellulose, lignin, waste recycling, kraft process 1974 Apr p 52–62
1970 Nov p 104–115 [839]	wrinkelproof rayon, and fire resisant 1949 Dec p 30
catchment basins 1965 Nov p 53 vitamin B-12 source for algae 1968 Oct p 59	re-entry corridor, artificial satellite, orbital motion, space exploration, Mercury, re entry vehicle, ablation, re entry from space
rain drop, elutriation, soil erosion, sheet erosion, micromechanics of soil	1961 Jan p 49-57
erosion 1948 Nov p 40-45 rain-forest ecosystem, slash burn agriculture, ecological fragility, tropical	re-entry vehicle, artificial satellite, orbital motion, space exploration, Mercury, ablation, re-entry corridor, re-entry from space
rain forest, fungal hyphae 1973 Dec p 58-67 [1286]	1961 Jan p 49–57
rain gauge, meteorology, radiosonde, anemometer, barometer, hygrometer, instrumentation of meteorology 1951 Dec p 64-70	reaction kinetics, heat, flame chemistry, oxy-aluminum torch, high temperatures flame 1954 Sept p 84-95
rainbow, glory, light diffraction, optics 1974 July p 60-73	photolysis, photochemistry, chemical reaction, free radicals,
atmospheric optics, reflection, refraction 1977 Apr p 116-127 Rainier explosion, atomic explosions, 'Plowshare', underground nuclear	spectroscopy, color centers, high speed chemistry 1960 May p 134-145
explosions, search for constructive use for nuclear explosions	algae, deuterium, metabolism of mammals, penicillin mold, heavy
1958 Dec p 29-35 rainwater composition, carbon dioxide, neuston, marine life, nucrolayer	water biology 1960-116 reaction propulsion, rocket engine, regenerative motor, liquid fuel,
oceanography, ocean surface, surfactant 1974 May p 62-77 [913] ram jet, flame chemistry, chemical kinetics, flash tube, heat, velocity,	technology history, status of the technology on eve of space age
luminosity, spectroscopy 1953 May p 29–35	1949 May p 30-39 'reactive inhibition', motivation, fatigue, schizophrenia, experiment in
helicopters, rotary wing aircraft, hovering flight 1955 Jan p 36-40 Raman clock, Kerr gate, laser mode locking, molecular motion, quantum	objective measurement of motivation 1963 May p. 130–140
mechanics, ultrafast phenomena, picosecond molecular processes	reactive intermediates, carbenes, carbon chemistry, chemical reaction, molecular orbitals 1976 Feb p 101-113
1973 June p 42-60 Raman laser effect, gas laser, solid-state lasers, diode junction laser, laser	reading, memory, visual search, visual scanning, information processing,
technology in rapid development 1963 July p 34–45 12941	bilingualism, language, communication, information processing.
Raman waves, musical instruments, string instruments, following bow experiment, wolf note, physics of bowed string 1974 Jan p 87-95	learning 1968 Mar p 78-86 visual perception, bilingualism, dyslexia, eye movement, grammatical
Ramapithecus, hominid, human evolution, Miocene fossils, primate	relations, language, perception of words 1977 July p. 24_01 [545]
rand tablet, cathode ray tube, computer technology, computer displays.	letters, words, pattern recognition, visual cues in recognition of letters and words 1978 Jan p 122-130 [122]
information theory, light pen, computer graphics, computer graphics and man-machine interface 1966 Sept p 86–96	reading machines, cluster seeking algorithms, pattern recognition
random-coil model, amorphous polymers, polymer microstructure.	computer technology 1971 Apr p 56-71 real-number line, formalism, infinitesimals, mathematical logic,
semicrystalline polymers, synthetic polymers, thermoplastic polymers 1975 Dec. p. 96–106	Platonism 1071 Ave. 22.00
random-dot stereograms, binocular vision, stereogram experiments,	US census of 1950
random numbers, Monte Carlo method, Buffon needle problem,	redistricting, elections, representative government, computer
probability, mathematics 1955 May p 90-96	reason, information processing, memory learning theory, retigned
	association as aid to memory 1956 Aug. p. 42-46 [419]

recall, learning, forgetting, retroactive inhibition, proactive inhibition,	
1967 Oct p. 117, 124 (50)	red shift, cosmology, galactic recession, element abundance, 'synthetic' elements, universe expansion 1948 July p. 20-25
receivers, communication terminals, computer technology	astronomy, galaxies, galactic recession, universe expansion, science,
communication technology, communication, microwave relays, transmitters	
receptor cells, retina, rod cells, cone cells, retinal sensitivity, retinal	1950 Sept. p. 24-27
information processing maintains high-contrast image over broad	Palomar Observatory, cosmology, stellar populations, interstellar matter, galactic evolution, Hale telescope, first yield from 200 inch
range of illumination 1072 for = 70.7	7 telescope 1952 Feb n 42-51
receptor specificity, bacteriophage, cell membrane, bacterial receptor sites, O antigen, Salmonella 1969 Nov p 120-124 [116]	cosmology, universe expansion, Olber's paradox, world lines curvature
recession velocity, cosmology, red shift, universe expansion, universe	of space, galactic evolution, evolutionary universe, element
spectroscopy, galaxies, galactic clusters, observational cosmology	Cosmology, universe expansion, universe spectroscopy, polaries
1956 Sept p 170-182 [240 spectroscopy, quasars, cosmological distance, red shift, whether	recession velocity, galactic clusters, observational cosmology
quasars are intra- or extra-galactic 1966 Dec p 40-52 [305	1956 Sept p 170-182 [240]
recessive gene, American Negro, skin color, blood typing, marriage	policy and a state garages, cygnus M, Crab Mcoura, comming
preferences, population genetics, genetic meaning of race	stellar rotation, Doppler effect, stellar evolution, spectroscopy, violet
1954 Oct p 80-85 nonizing radiation, mutation 1955 Nov p 58-68 [29]	shift, correlation of rotational velocity with mass
reciprocal crossing, cytoplasmic inheritance, maternal inheritance, sex	
linked traits, non-Mendelian inheritance, male sterility, paramecium.	radio galaxies, synchrotron radiation, radio astronomy, lunar occultation, quasars found to be extra-galactic 1963 Dec p 54-62
chloroplast, plastids, cytogene, review of evidence for an extra-	spectroscopy, quasars, recession velocity, cosmological distance,
chromosomal genetics 1950 Nov p 30-39 [39] recombinant DNA, bacteriophage, virology, provirus, modified virus	whether quasars are intra- or extra-galactic
1955 Apr p 92-98 [24]	1966 Dec p 40-52 [305] galactic evolution, gravity, gravitational instability, primordial fireball,
bacteria, sexual reproduction, conjugation, gene recombination,	nonuniformities, protogalaxies, origin of galaxies
sexuality in bacteria 1956 July p 109–118 [50]	1970 June p 26-35
bacteria, gene transformation, drug resistance, streptomycin, pneumococcus, biochemistry of Avery, McLeod and McCarty	spectroscopy, Doppler effect, quasars, shell hypothesis, radio source,
experiment 1956 Nov p 48-53 [18]	absorption lines clue to quasar structure 1970 Dec p 22-29 cosmology, quasars, universe expansion 1971 May p 54-69
bacteria, gene transduction, bacteriophage, bacterial gene transduction	uncertain at Palomar 1955 Dec p 47
by phage infection 1958 Nov p 38–43 [106]	astrophysics, Hubble constant 1972 Feb p 41
carcinogenesis, polyoma virus, virus disease, 'temperate' infection, genetic transduction, viral induced malignancy	red shift increases, with reach of 200-inch 1951 Aug p 31 red shift measurement, astrophysics, Eotvos experiment, relativity theory,
1960 Nov p 63-71 [77]	gravitation theories assessed 1974 Nov p 24-33
bacteria, bacteriophage, conjugation, gene recombination, mechanisms	redistricting, reapportionment, elections, representative government,
of heredity and infection in bacteria 1961 June p 92–107 [89] gene transformation, pneumococcus, cell wall, transformation induced	computer applications, gerrymander 1965 Nov p 20-27 reducing agent, hydrazine, rocket fuel, Raschig synthesis
by factor synthesized by cell 1969 Jan p 38–44	1953 July p 30–33
gene manipulation, molecular cloning, plasmids, Asilomar conference,	redundancy, information theory, statistics, thermodynamics, noise, digital
hazard evaluation 1975 July p 24-33 [1324]	storage media, analogue storage media, information compression, automatic control, information 1952 Sept p 132-148
gene manipulation, gene splicing, National Academy of Sciences, science policy, NIH guidelines 1977 July p 22–23 [1362]	computer music, music, information theory, computer study of
fragmentary inheritance 1958 Oct p 54	structure of music 1959 Dec p 109-120
recombination induced 1960 May p 90 NIH guidelines 1976 Aug p 42	reef ecology, ecological niche, symbiosis, cleaning behavior, animal behavior, behavioral integration of reef ecology
NIH guidelines 1976 Aug p 42 safety guidelines 1977 May p 53	1961 Aug p 42–49 [135]
see also gene recombination	reef evolution, climatic change, coral reefs, energy cycle, fossil reefs,
recording, communication technology, magnetic tape, computer, magneto-optical recording, playback 1969 Nov p 70-82	marine ecosystems 1972 June p 54-65 [901] reflection, photoelectric effect, color, refraction, light, resonance
magneto-optical recording, playback 1969 Nov p 70-82 rectification, radio, triode, De Forest, vacuum tube, Marconi, Fleming	absorption, photon, electron, interaction of light with matter
valve, diode, De Forest's 1906 contributions 1965 Mar p 92-100	1968 Sept p 60-71
radio, thermionic tube, diode, Fleming, electron tube, history of science, England, Edison, lamps, Deforest 1969 Mar p 104-112	atmospheric optics, rainbow, refraction 1977 Apr p 116-127 color and illumination, color vision, 'retinex' theory, visual perception,
rectifiers, electronics, electron tubes, amplifiers, communication	visual prements, 'color Mondrian' experiment
technology, electron optics, cathode-ray tube, communication,	1977 Dec p 108-128 [1392]
power, thermionic emission, state of the technology 1950 Oct p 30-39	reflex arc, embryonic development, regeneration, nerve circuits, embryology, 'hard-wiring' of nervous system
recycling, material resources, biosphere, nonrenewable resources,	1959 Nov p 68-73 [72]
morganic-materials cycle 1970 Sept p 194-208 [1198]	nerve conduction, synapse, motor neuron, membrane potential inhibitory impulse, transmitter molecules, nerve excitation, activity
nuclear power, materials, fusion reactor, fusion torch, energy transformation, plasma containment, magnetohydrodynamics	at the neural synapse 1965 Jan p 56-66 [1001]
1971 Feb p 50-64 [340]	central nervous system, neuromuscular control, muscle contraction,
red blood cell, see erythrocyte	nerve inhibition, interneuron, motor neuron, stretch reflex, Renshaw cell, synapse 1966 May p 102-110
red blood cen, see crythnocyte red-feather money, commerce, money, bride price, cultural anthropology, Southwest Pacific-Solomon Islands culture 1962 Mar p 94-104	nervous system vision motor neuron, interneuron, animal behavior,
- to the local state clare civilar evolution, sienai modernie,	small neuron systems as models for study 1967 May p 44-52 [1073] leeches, neural organization, nerve cells, nerve physiology, nerve
main-sequence stars, H-R diagram, stellar allatemy, age of 1970 July p 26-39	signals, nervous system, neuro motor synapse
stars	1974 Jan p 38-48 [1287] reflex conditioning, spinal reflexes, conditioned reflex, "spinal" cats (i.e.
	with recented coingle cords) Walk' 1900 Nov p 20-22
Red Sea, Afar triangle, Rift Valley, guyot, Guit of Addit, sea floor spreading opens new ocean	reference photoelectric effect, color, reliccion, light, resondnee
spreading, continental diff, scarnoof spreading, feb p 32-40 [891]	absorption, photon, electron, interaction of light with matter 1968 Sept p 60-71
Red Sea hot brines, brine, salimity, percolation, ocean floor, sea-floor 1970 Apr p 32-42	atmospheric optics, mirages, optical illusion, Fata Morgana, walking
spreading	on water 1976 J in p 102-111

atmospheric optics, rainbow, reflection 1977 Apr. p. 116-127 ractory period, nerve impulse, action potential, sodium ion potential,	
nodes of Ranvier, nerve membrane 1952 Nov. p. 55-65 [20]	
rigerated tombs, Scythian culture, Siberia, tombs, archeology, Altai	
Mountains, cloth, leather and wood artifacts preserved by refrigeration 1965 May p. 100-109	
frigeration, cryogenic technology, Stirling cycle, hot-air engine, closed	
cycle, displacer 1965 Apr. p. 119–127 frigerator, .3 degree absolute 1953 Sept. p. 82	
generation, embryonic development, dedifferentiation of tissue cells,	
cancer 1949 Dec. p. 22-24 protozoon, cell differentiation, embryonic development, protozoon as	
model for embryological study 1953 Mar. p. 76-82	
Hydra, model for study of multi-cellularity 1957 Dec. p. 118–125 salamander, frog, embryonic development, nerve fibers, role of nerve	
fibers in regeneration 1958 Oct. p. 79–88	
embryonic development, nerve circuits, embryology, reflex arc, 'hardwiring' of nervous system 1959 Nov. p. 68-75 [72]	
wound healing, leukocyte, fibroblasts, collagen, epidermal cells	
1969 June p. 40-50 [1144] biological form, cell differentiation, cellular polarity, embryonic	
development, Hydra, morphogenesis, morphogens	
1974 Dec. p. 44-54 [1309] cell differentiation, cockroach, embryo-graft experiments, embryonic	
development, newt, biological form 1977 July p. 66-81 [1363]	
egenerative furnace, heat, chemistry, nitrogen fixation, temperature limits, high temperatures: chemistry 1954 Sept. p. 109–119	
egenerative motor, rocket engine, reaction propulsion, liquid fuel,	
technology history, status of the technology on eve of space age 1949 May p. 30-39	
Regge poles, high-energy physics, resonance 'particles', group theory,	
temporary associations of particles 1963 Jan. p. 38-47 [290] Regge trajectory, high-energy physics, baryons, mesons, 'strong' force,	
'eightfold way', conservation laws, resonance 'particles', 'bootstrap'	
hypothesis 1964 Feb. p. 74-93 [296] mesons, particle accelerator, pions, proton, quark, high-energy physics,	
middle particle acceptator, protes, protes, quaris, ingit energy projects,	
nucleons, high-energy scattering 1967 Dec. p. 76–91	
nucleons, high-energy scattering 1967 Dec. p. 76–91 regional planning, local government, cities, New York, metropolitan	
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nucleons, high-energy scattering 1967 Dec. p. 76-91 regional planning, local government, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134-148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14-23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50]	
nucleons, high-energy scattering 1967 Dec. p. 76–91 regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253]	
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nucleons, high-energy scattering regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52–55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99–109 Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46–51 relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72–78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz transformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93–98 artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing Einstein's general theory of relativity 1959 May p. 149–160 Mössbauer effect, atomic clock, resonance absorption, Doppler effect, general relativity tested by atomic clock 1960 Apr. p. 72–80 [271] gravitation, wave-particle duality, quantum mechanics, space-time	
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nucleons, high-energy scattering 1967 Dec. p. 76–91 regional planning, local goverment, cities, New York, metropolitan region, central city, suburbs, Northeast Corridor 1965 Sept. p. 134–148 regolith, Apollo project, moon, meteorites, lunar soil, structure and history of moon 1970 Aug. p. 14–23 rehabilitation medicine, spinal cord break 1968 Apr. p. 50 [50] relative isotope abundance, meteorites, solar system, age of solar system 1960 Nov. p. 171–182 [253] relativity, photoelectric effect, Einstein, work of Albert Einstein appraised at 70 1949 Mar. p. 52–55 gravity, inertia, Galilean relativity, Einstein, frames of reference, philosophy of science, identity of inertia and gravity 1957 Feb. p. 99–109 Lorentz transformation, Einstein, child development, child's view of reality 1957 Mar. p. 46–51 relativity of motion, Coriolis effect, ocean circulation, atmospheric circulation 1952 May p. 72–78 [839] relativity theory, ether drift, Fitzgerald contraction, Maxwell's equations, Lorentz transformation, life and work of G. F. Fitzgerald 1953 Nov. p. 93–98 artificial satellite, Mercury, stellar shift, electromagnetic frequency shift, perihelion shift, clock paradox, general relativity, testing Einstein's general theory of relativity 1959 May p. 149–160 Mössbauer effect, atomic clock, resonance absorption, Doppler effect, general relativity tested by atomic clock 1960 Apr. p. 72–80 [271] gravitation, wave-particle duality, quantum mechanics, space-time continuum, uncertainty principle, P.A.M. Dirac view of physics 1963 May p. 45–53 galactic radiation, gravitational waves, gravitational-radiation detector 1971 May p. 22–29 black hole, gravitational waves, neutron stars, pulsar, Red Giant stars, rotational energy, white dwarfs 1972 May p. 38–46 astrophysics, Eotvos experiment, red shift measurement, gravitation theories assessed 1974 Nov. p. 24–33 gravity constant, interplanetary radar-ranging, lunar occultation, lunar orbit, evidence for decrease of gravitational constant	
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black hole, gravitational fields, quantum mechanics, event horizon
                                                  1977 Jan. p. 34-40 [349]
                                                           1960 July p. 74
  optics, implications of Fitzgerald contraction
  see also: general relativity, special relativity, Einstein Galilean relativity
relay computers, computer technology, digital computer, analogue
    computer, binary arithmetic, logic, automatic control, computer
    memory, control systems, status of 'mathematical machines'
                                                       1949 Apr. p. 28-39
releaser stimulus, courtship display, gulls, animal behavior, displacement
                                                      1954 Nov. p. 42-46
     activity, ethology
  ethology, animal behavior, evolution, ritualized behavior, innate
     behavior, evolution of behavioral patterns 1958 Dec. p. 67-78 [412]
  arena behavior, bowerbirds, sexual behavior, animal behavior,
     courtship display, ethology, natural history
                                                1963 Aug. p. 38-46 [1098]
  fruit fly, sexual behavior, courtship song, insect behavior, species
                                                       1970 July p. 84-92
     specificity
reliability analysis, network analysis, nodes and branches, pipelines,
     powergrids, graph theory
                                                      1970 July p. 94-103
religion, Lysenkoism, Lamarck, acquired characteristics, genotype,
     evolution, phenotype, mutation, ostrich calluses, speciation,
     orthodoxy, Darwinism, experiments in acquired characteristics
                                                       1953 Dec. p. 92-99
  cargo cult, Christianity, cultural anthropology, Melanesian cargo cult
                                                    1959 May p. 117-125
  Elamite culture, ziggurat, Tower of Babel, Biblical archeology, 1000
     B.C., Iran
                                                       1961 Jan. p. 68-76
  Darwinism, evolution, Scopes trial, science teaching, creationism,
     antievolution laws in U.S.
                                                       1969 Feb. p. 15-21
                                                       1973 Jan. p. 80-87
  Dead Sea scrolls, Gnostic library, Judaism
  science teaching, evolution, curriculum reform, Darwinism,
     creationism, Bible, high school, Man, a Course of Study, biological
     sciences curriculum study
                                                       1976 Apr. p. 33-39
religious persecution, blood typing, Judaism, racial discrimination, social
     evolution, genetic drift, population genetics, Jewish community of
     Rome
                                                    1957 Mar. p. 118-128
relocation, urban renewal, slums, cities, housing, eminent domain, urban
     planning, U.S. experience with Federal subsidy of urban renewal
                                                    1965 Sept. p. 194-204
REM sleep: rapid-eye-movement sleep
REM sleep, dreams, sleep, electroencephalography, function of dreams
                                                 1960 Nov. p. 82-88 [460]
   dreams, sleep research, electroencephalography, reticular formation,
     brain waves, paradoxical sleep, cat brain, the states of sleep
                                                 1967 Feb. p. 62-72 [504]
remanent magnetism, Earth, geomagnetism, wandering poles, magnetic
     reversals, Earth's magnetism
                                                    1955 Sept. p. 152-162
   continental drift, plate tectonics, ocean floor, island arcs, Wegener
     hypothesis re-stated with new evidence, age of rocks
                                                1963 Apr. p. 86-100 [868]
   mid-Atlantic rift, pillow lava, ocean ridges, sea-floor spreading,
     submersible research craft
                                                 1975 Aug. p. 79-90 [918]
   Earth axis shift
                                                          1955 June p. 52
 remote control, manipulators, robot, feedback, automatic control,
     industrial manipulators
                                                       1964 Oct. p. 88-96
 remote sensing, aerial photography, natural resources, infrared
     photography, multiband camera, remote sensing of natural resources
                                                       1968 Jan. p. 54-69
   moon, lunar exploration, lunar landing sites, manned space flight
                                                 1969 Oct. p. 54-72 [889]
   satellites for resource exploration
                                                          1966 Nov. p. 66
 Renaissance, Vesalius, human anatomy, medical history, his de Humani
      Corporis Fabrica, work of art
                                                      1948 May p. 24-31
   creativity, scientific revolution, Leonardo, philosophy of science,
     introduction to single-topic issue on innovation in science
                                                      1958 Sept. p. 58-65
   scientific revolution, Industrial Revolution, human evolution,
      interaction of science and technology, 13th c. to 20th c.
                                                    1960 Sept. p. 173-190
 Renaissance paintings, projective geometry, Leonardo, Durer, Desargue's
      theorem, Pascal's theorem, mathematics, projective geometry as
      systematized by Poncelet and Klein
                                                       1955 Jan. p. 80-86
 Renaissance science, atomic theory, Greek science, science history,
      Boscovich, Lucretius, forces between atoms
                                                    1970 May p. 116-122
 Renaissance technology, Bruegel the Elder, technology, glimpses of
      practical knowledge at work 400 years ago
                                             1978 Mar. p. 134-140 [3003]
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Renshaw cell, central nervous system, reflex arc, neu	romuscular control	tor idential to at a
muscle contraction, herve inhibition interneuro	n, motor neuron	
stretch tenex, synapse	1966 May p. 102-11	one gy, not water, sun can supply most of the 30 percent of fuel
reduces, intective to plants and mammals	1063 Aug - 6	onergy consumed in domestic heating that some a care
representative government, reapportionment, redistri	icting, elections.	
computer applications, gerrymander	1965 Nov n 20 2	coherent radiation, energy levels, quantum jumps, quantum
repressor molecules, phagocytosis, gene expression, o	Deraint-represent	tochnology distributed, foundation of maser, faser
system, fac repressor, lambda repressor, isolation	n of two gene	Mossbauer officer automicinal 1948 Sept. p. 16-23
repressors; how they work 1979	June o 35 11 170	Mossbauer effect, relativity theory, atomic clock, Doppler effect,
reproduction, insect behavior, social insect, army ant	ants, comparative	
psychology, leedback, pheromones, trophallaxis	natural history	molecular beam, electron theory, atomic radiation, coherent radiation,
philosophy of science, anthronomorphism	1948 June - 16 1	gas molecules, nuclear magnetic resonance, Stern-Getlach
bacteriophage, genetics, tracer experiments, DNA,	arotein cont	
	1953 May p. 36-39	photoelectric effect, color, reflection, refraction, light, photon, electron,
virus, life cycle, bacteriophage, provirus	1954 Mar. p. 34-3	1700 3501, 0, 00-11
contraception, birth control, ovulation, nidation, fe	rtilization	
, , , , , , , , , , , , , , , , , , , ,	1954 Apr. p. 31-34	energy physics, liquid-drop model, charge exchange, spin-orbit force,
animal behavior, population control, territorial beh	avior homeostatic	
population controls 1964	Aug. p. 68-74 [192]	high-energy physics, Regge poles, group theory, temporary associations
mosquitoes, yellow fever, sexual behavior, eggs, lar	vae Aedes Aeami	
1	968 Apr. p. 108-116	high-energy physics, baryons, mesons, 'strong' force, 'eightfold way',
biological clock, malaria, Plasmodium, parasitism,	rometoruta	The state of the s
mosquitoes 1970 Iur	se p. 123–131 [1181]	1964 Feb. p. 74-93 [296]
fetus as transplant, histocompatability, immune res	nonea	
immunological privilege, trophoblast, nidation, p	ponac, Iacenta	resonance vibration, earthquakes, seismology, seismic waves, Earth's free
manaragian privilego, trophodiust, tuddion, p		oscillations 1965 Nov. p. 28-37
see also: sexual reproduction	1974 Apr. p. 36-46	
reproductive behavior, see: arena behavior, lek behavio	r and the like	acoustic oscillation 1968 Dec. p. 94-103
courtship display	n and the like,	resonators, quantum mechanics, Planck, science history, spectroscopy,
reproductive physiology, birth control, sex hormones, h	uman nomulation	black body, Einstein, photoelectric effect, Compton effect, quantum
	1974 Sept. p. 52-62	jumps 1952 Mar. p. 47-54 [205] resource management, ground water, artesian well, piezometric surface,
reptile, dinosaurs, mammalian evolution, paleontology	isia ucpi, p, sz-oz. i iharansida	
	1949 Mar. p. 40-43	water table, water cycle, runoff, ground water in water-resource management 1950 Nov. p. 14-19 [818]
comparative physiology, marine birds, adaptation, s	alt excreting glands	management 1950 Nov. p. 14-19 [818] economic development, industrialization, tropical rain forest,
	159 Jan. p. 109–116	subsistence economy, tropical rain forest, urbanization, Brazil,
behavioral adaptation, 'cold-blooded' animals, pigm		uneven national development 1963 Sept. p. 208-220
thermoregulation, lizard, behavioral thermoregula		pollution control, international cooperation, jurisdictional disputes,
	59 Apr. p. 105-120	oceanography, international competition and cooperation
animal behavior, crocodile, Nile crocodile, parental		1969 Sept. p. 218-234 [888]
	76 Apr. p. 114-124	forestry, nitrogen fixation, ecosystem, runoff, erosion, watershed,
earless monitor of Borneo	1961 July p. 76	deforestation, deforestation experiment 1970 Oct. p. 92-101 [1202]
reptile evolution, continental drift, speciation, radiation		gene manipulation, grafting techniques, forestry, Southern pine, tree
convergence, Gondwanaland, Laurasia, mammalia		farming, seed-orchard concept 1971 Nov. p. 94-103
supercontinent breakup and animal diversification		resource prospecting. Amazon, tropical rain forest, developing countries,
1969 \	Aar. p. 54-64 [877]	economic planning, forest management, mineral resources, electric
research and development, science education, U.S.S.R.,	science funding,	power, the Amazon frontier 1948 May p. 11-19
	969 June p. 19-29	Resources for the Future', Paley report 1952 Sept. p. 69
research funding, particle accelerator, U.S.S.R., high-en	ergy physics	respiration, enzymes, catalysis, digestion, fermentation, lock-and-key
1	956 Aug. p. 29-35	theory, science history 1948 Dec. p. 28-39
N.S.F., peer review, university science, science policy,		physiology, nervous system, endocrine system, nerve impulse, muscle contraction, science, physiology 1900-1950 1950 Sept. p. 71-76
P	Oct. p. 34-41 [698]	contraction, science, physiology 1900-1950 1950 Sept. p. 71-76
U.S. Federal budget 1956	1956 Mar. p. 49	chlorophyll, tetrapyrrole ring, hemoglobin, cytochrome, enzymes, tetrapyrrole virtuosity 1958 Aug. p. 77-81
U.S. Federal 'mission-oriented' agencies	1956 Nov. p. 61	tetrapyrrole virtuosity 1958 Aug. p. 71-81 lung, neonatal physiology, breathing, first breath of newborn
at University of California	1957 May p. 62	lang, neonatat physiology, breathing, that breath of headon.
U.S. Department of Science and Technology proposed	1958 Jan. p. 44	goodno lily insect attractant. Arum family, carmyorous plants
increase for National Science Foundation	1958 Mar. p. 52	1966 July p. 80-88
U.S. Federal appropriations	1958 Sept. p. 85	bacterial toxin, plague bacillus, Black Death, electron transport,
U.S. Federal budget 1960	1959 Jan. p. 62	mechanism of death by plague toxin 1969 Mar. p. 92-100
U.S. Federal Council for Science and Technology	1959 Feb. p. 59	aquatic insect, insect eggshell, adaptation, entomology, selective
U.S. Federal budget 1960	1959 Mar. p. 60	nermeability of insect 1970 Aug. p. 84-91 [1181]
U.S. Federal budget 1961	1960 Feb. p. 68	solar radiation, photosynthesis, biosphere, agricultural ecosystem,
N.Y. City Health Research Council	1960 Aug. p. 77	climax ecosystem, energy cycle, ecosystem, food chain, biosphere
11 C support of university research	1961 Jan. p. 78	energy cycle 1970 Sept. p. 64-74 [1190]
U.S. National Aeronautics and Space Administration		biosphere, energy cycle, photosynthesis, power, radiation energy, solar radiation, terrestrial radiation 1971 Sept. p. 88-100 [664]
0,0,11440	1961 Apr. p. 76	radiation, terrestrial radiation 1971 Sept. p. 88-100 [664] cytochrome C, protein evolution, protein structure, ammo-acid
international co-operation	1962 July p. 74	substitution, mutation rate, 1.2 billion year record of evolution.
government-university-scientist relations	1964 May p. 58	ancient protein 1972 Apr. p. 58-72 [1245]
	ina Enangual	water breathing rate 1963 Apr. p. 83
	55 Oct. p. 80-86	respiratory air sacs, bird flight, aerodynamics, weight-strength ratio, bone
	1956 July p. 50	armoure hirde as flying machines 1900 Mar. D. 88-70
pharmacology, synthesis	1977 Jan. p. 46	ne nimton; are as change, asphyxia, breathing, alving brids circul, using
reservoir, dam safety, earthquake zones	ites, public	mammale diving hirds hibernation, oxygen storage, selective
reservoir dam-building, New World archeology, Parties	8 Dec. p. 12-17	ischemia, human physiology, redistribution of oxygenated blood and
works, crisis in U.S. archeology	ement, water	'master switch of life' 1963 Dec. p. 92-196
reservoir recharging, ground water, 1977 Ma	y p. 21-27 [924]	
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espiratory infection, histoplasmosis, fungal infection, airborne infection,	retirement, age 65 questioned 1954 Feb p 4
epidemiology, coccidioidomycosis 1948 June p 12–15	idle and happy 1956 Feb p 6
estriction enzymes, bacteria, proteolysis, infection, viral DNA, DNA	retroactive inhibition, learning, forgetting, proactive inhibition, recall, interference theory 1967 Oct p 117–124 [509
sequence, bacterial recognition and rejection of exotic DNA 1970 Jan p 88-102 [1167]	retrolental fibroplasia, premature infants, epidemiology, oxygen, infant
ete mirabile, heat exchange, mackerel shark, thermoregulation,	mortality, blindness, 'blind babies' 1955 Dec p 40-4
comparative physiology, tuna, warm-bodied fishes	blindness, neonatal disorder, medical ethics, premature infants,
1973 Feb p 36-44 [1266]	medical researches, 'blind babies' 1977 June p 100–107 [1361
counter-current exchange, heat conservation, physiology, swim	reversible reactions, time reversal, symmetry, probability against it in macroscopic world 1956 Aug p 107–11-
bladder, kidney, gill, physics of a physiological invention 1957 Apr p 96	macroscopic world 1956 Aug p 107–11- reversing figures, depth reversal, Necker cube, optical illusion, visual
reticular formation, central nervous system, medulla, brain, perception,	perception 1971 Dec p 62–71 [540
motor reflex, neurophysiology, attention and orienting mechanism in	Rh: Rhesus factor
brain 1957 May p 54–60 [66]	Rh factor, human evolution, Rh negative gene, Ro gene, blood typing,
dreams, sleep research, electroencephalography, brain waves,	race 1951 Nov p 22–23
paradoxical sleep, REM sleep, cat brain, the states of sleep 1967 Feb p 62-72 [504]	blood groups, immune response, Rh incompatibility, prevention of 'Rhesus' babies 1968 Nov p 46-52 [1126
retina, eye, rod cells, cone cells, ins, optogram, rhodopsin, camera,	antibiotic resistance, bacteria, infectious disease, drug resistance, gene
anatomy and physiology of the eye, camera as metaphor	mutation, plasmids, bacterial conjugation 1973 Apr p 18-27 [1269
1950 Aug p 32–41 [46]	Rh incompatibility, blood groups, immune response, Rh factor,
visual perception, visual scanning, visual cortex, how we see straight	prevention of 'Rhesus' babies 1968 Nov p 46-52 [1126
lines 1960 June p 121–129 vision, visual perception, learning, Gestalt psychology, stabilized	anti-D antibody 1966 Mar p 58 Rh negative gene, Rh factor, human evolution, Ro gene, blood typing,
retinal images, evidence for perceptual theories	race 1951 Nov p 22–25
1961 June p 72–78 [466]	rheology, flow of matter, Hooke body, Newton body, St Venant body,
cell communication, central nervous system, nerve conduction,	how solids flow 1959 Dec p 122–138 [268]
ganglion reflexes, neuroreceptors, nerve impulse, neurotransmitters,	rhesus embryo, poliomyelitis virus, tissue culture, serial passage, polio vaccine, tissue culture of virus opens way to vaccine
neural synapse, cytology, neuromuscular synapse, how cells communicate 1961 Sept p 209–220 [98]	1952 Nov p 26–29
cataract, eye lens, etiology, course and treatment of cataract	Rhesus factor, see Rh
1962 Mar p 106–114	rhesus monkeys, learning, thinking, comparative psychology, 'learning to
eye, vision, 'floaters', nature and origin of 'floaters'	think' 1949 Aug p 36–39 [415]
1962 June p 119–127 eye, visual cortex, optic nerve, vision, organization of sight into vision	сипоsity, problem solving, genetic traits, animal behavior 1954 Feb р 70–75
1963 Nov p 54–62 [168]	behavioral psychology, emotional deprivation, maternal deprivation,
amphibian, frog, color vision, retinal image-processing, visual	surrogate mother, infant monkey 'love' 1959 June p 68-74 [429]
perception, retinal processing of visual sensation	social deprivation, comparative psychology, maternal deprivation, peer
1964 Mar p 110–119 color vision, cone cells, pigments, ganglion cells, spectrophotometry,	group, experiments in social deprivation
three-color receptor system 1964 Dec p 48–56 [197]	1962 Nov p 136–146 [473] social behavior, urban monkeys, learning, urban and forest monkeys in
vision, photographic emulsion, vidicon, television camera,	India 1969 July p 108-115 [523]
photochemistry, light, image detection, electronic camera	rheumatic-fever, Aschoff bodies, streptococcus, infection, immune
1968 Sept p 110–117 perception, vision, retinal image-processing, visual perception, visual-	response, heart disease, hypersensitivity 1965 Dec p 66–74
cell types 1969 May p 104–114 [1143]	rheumatoid arthritis, allergic reaction, autosensitivity, poison ivy, dermatitis, multiple sclerosis, delayed hypersensitivity
receptor cells, rod cells, cone cells, retinal sensitivity, retinal	1960 Apr p 129–137
information processing maintains high-contrast image over broad	Rhind papyrus, mathematics, Egyptian civilization 1952 Aug p 24-27
range of illumination 1973 Jan p 70-79 nerve circuits, dendrites, synapse, postsynaptic potential, olfactory	rhinoceros, animal husbandry, antelope, giraffe, elephant, buffalo,
bulb, microcircuits in the nervous system	hippopotamus, wildlife husbandry in Africa 1960 Nov p 123–134 rhinoceros in Asia, days seem numbered 1953 Jan p 38
1978 Feb p 92–103 [1380]	rhinoceros in Asia, days seem numbered 1953 Jan p 38 rhizobium, algae, bacteria, legumes, nitrogen fixation, nitrogenase, genetic
retina cells, vision, photosynthesis, photoperiodicity, visual pigments,	engineering, Haber process, legumes, symbiosis, nitrogenase,
phytochrome, chlorophyll, plant growth, light and living matter	biological nitrogen fixation 1977 Mar p. 68-81
1968 Sept p 174-186 rehnal image-processing, amphibian, frog, color vision, retina, visual	Rhodian sea law, shipbuilding, Byzantine shipping, underwater archeology, shipwreck of 17th century 1971 Aug p 22-33
perception, retinal processing of visual sensation	archeology, shipwreck of 17th century 1971 Aug p 22–33 rhodopsin, eye, rod cells, cone cells, retina, iris, optogram, camera,
1964 Mar p 110-119	anatomy and physiology of the eye, camera as metaphor
perception, vision, visual perception, retina, visual-cell types 1969 May p 104-114 [1143]	1950 Aug p. 32-41 [46]
color blindness, cone cells, fovea, genetic disease, visual pigments	electroretinography, vitamin A deficiency, night blindness, opsin, bright-light exposure, retinitis pigmentosa, night blindness in rat,
1975 Mar p 64–74 [1317]	action of vit A on eye 1966 Oct p 78–84 [1053]
retinal orientation, disoriented figures, form perception, visual perception	vision, visual pigments, opsin, isomerism, vitamin A
1974 Jan p 78-85 [557] retinal pigments, eye, vision, color perception, cone cells, trichromaticity	1967 June p. 64-76 (1075)
implies three cone pigments 1962 Nov p 120–132 [139]	bacteria, cell membrane, halobacteria, photosynthesis, salt-loving
retinal sensitivity, retina, receptor cells, rod cells, cone cells, retinal	bacteria 1976 June p 38-46 [1340] rhythm, teaching machine, operant conditioning, inductive reasoning,
information processing maintains high-contrast image over broad range of illumination 1973 Jan p. 70-79	education, self-teaching by small, rigorous steps
range of illumination 1973 Jan p 70-79 retinene, photosynthesis, chlorophyll, carotene, vision, photobiology,	1961 Nov. p. 90, 102
phototropism, bioluminescence, sunlight, life and light	nboflavin synthesis, baking, yeast, brewing, cryptococcal meningitis, fermentation, cell physiology, yeasts, useful and noxious
1959 Oct p. 92-109	1060 Esh = 126 144
'retinex' theory, color and illumination, color vision, reflection, visual perception, visual pigments, 'color Mondrian' experiment	indifficultiese, insulin, protein structure, amino-acid sequence, and
1977 Dec. p. 108_128 [1202]	action, myoglobin, resolution of atomic structure of three molecules
retuntis pigmentosa, electroretinography, vitamin A deficiency, night	1961 Feb p 81-92 [80] nbonuclease synthesis, solid-phase and carboxyanhydride methods
olindness, opsin, rhodopsin, bright-light exposure, night blindness in	
rat, action of vit A on eye 1966 Oct p 78-84 [1053]	nbonucleic acid, see RNA 1969 Mar p 46

. The state of the	
ribosomal RNA, hybrid cells, DNA, RNA, gene transcription, gene complement, density-gradient centrifugation, DNA-RNA	risk estimation, electromagnetic spectrum, irradiation standards,
hybridization experiments 1964 May a	inicrowave diodes, microwave radiation, technology assessment
ribosome, microsome, protein synthesis, RNA, cytology, recognition	
ribosome as site of protein synthesis 1958 Mar n 118-12	d [52]
protein synthesis, DNA, mRNA, tRNA, nucleus, chromosome,	ritualized behavior, ethology, animal behavior evolution, innate behavior
cytology, how cells make molecules 1961 Sept p 74-8 mRNA, tRNA, genetic code, DNA, protein synthesis, genetic code	
elucidated, amino acid 'dictionary' 1963 Mar p 80-94	1958 Dec. n. 67-78 ts/12
DNA, polyribosomes, protein synthesis, RNA 1963 Dec. p.	in_53
antibiotics, protein synthesis, streptomycin, genetic code, DNA R	1967 Apr p 84-94 NA, riverbed, meanders, sine-generated curve, hydraulics, least-work path for
mutation, 'misreadings' induced by antibiotic alterations of	river 1966 June n. 60-70 (869)
ribosomes 1966 Apr p 102	rivers, climatic change, water erosion, drainage patterns, river evolution
amino acids, protein synthesis, formylmethionine, mRNA, tRNA, initiation of protein synthesis 1968 Jan p 36-42 [1967 Apr n 84_91
DNA transcription, electron microscopy, gene action visualized,	
mRNA 1973 Mar n 34-42 I	RNA, heredity, chromosome, DNA, nucleoproteins, protein synthesis DNA identified as agent of heredity 1953 Feb p 47-57 [28]
UNA fractionation, gene isolation, ribosomal RNA-coding genes	genetic code, codon, amino-acid pairing, DNA, Gamow proposes
1973 Aug p 20-29 [1	278) triplet codon 1955 Oct p 70-78
cell structure, neutron-beam-scattering technique, protein synthesis	The state of the s
template action in protein assembly 1961 June 1	
mechanism of protein synthesis 1963 Feb 1	
crystalline ribosome arrays in chick embryos 1967 Sept p	
hybrid ribosomes 1968 Nov r	
cell organelle, RNA, protein synthesis, structure of the ribosome	protein synthesis, DNA, recognition of RNA as transcriber of DNA
1969 Oct p 28 [1 rice, economic development, irrigation, Mekong river, monsoons, floo	
hydro-engineering, Mekong river plan, United Nations	ds, cell nucleus, cytopiasm, cell organelle, chromosome, cell physiology, DNA, endoplasmic reticulum, cytology, nuclear control of cell
1963 Apr p 49	
China, economic development, hybrid wheat, agricultural technolog	y, glial cells, learning theory, memory, neurones, brain, molecular theory
hybrid rice, irrigation, livestock 1975 June p 13	
'green revolution', India, food and agriculture, technology transfer, monsoons, irrigation, fertilizers, agronomy, wheat, hybrid crop	DNA, polyribosomes, protein synthesis, ribosome 1963 Dec. p 44-53 hybrid cells, DNA, ribosomal RNA, gene transcription gene
plants 1976 Sept p 154	
agronomy, crop yields, plant breeding, wheat, maize, food and	hybridization experiments 1964 May p 48-56
agriculture, plant genetics 1976 Sept p 180-	
see also artificial rice	fragment assembly, first nucleotide sequence 1966 Feb p 30-39 [1033]
ricinine, alkaloids, plant physiology, morphine, strychnine, 'hemlock', physostigmine, caffeine, conune, quinine, cocaine, LSD, human	antibiotics, protein synthesis, streptomycin, genetic code, ribosome,
toxins in plant physiology 1959 July p 113–121 [10	87) DNA muration, 'misreadings' induced by antibiotic alterations of
rickets, air pollution, vitamin D, ultraviolet radiation, osteogenesis,	ribosomes 1966 Apr p 102-109
calcium metabolism, epidemiology, sunlight	amino acids, DNA, protein synthesis, genetic code, mutation molecular biology, triplets, anticodon, ribosomes, triplets, wobble
1970 Dec p 76-91 [12] rickettsiae, typhus, chick-embryo culture, Rocky Mountain spotted few	hypothesis 1966 Oct p 55-62 [1052]
1955 Jan p 74-	79 DNA genetic code, poliomyelitis virus, protein synthesis, virus
bacteria, chemical weapons, biological weapons, Vietnam war, arms	multiplication, virus structure 1975 May p 24-31
race, CS gas, virus disease, tear gas, herbicide, chemical-biological	role in protein synthesis 1956 Mar p 57 161 structure and function 1962 Aug p 53
warfare 1970 May p 15-25 [117 rickettsial disease, antibiotics, aureomycin, virus disease, bacterial	replicated in test tube 1965 Nov p 50
infection, 'broad spectrum' antibiotic 1949 Apr p 18-	23 interferon induction 1969 Jan p 46
ridged fields, Arawak Indians, earthworks, flood plain, agricultural	rahosome, cell organelle, protein synthesis, structure of the ribosome
system. New World archeology 1967 July p 92-19	
Riemann, curvature of space, non-Euclidian geometry, general relativity 1954 Nov p 80-8	see also mRNA, tRNA RNA-DNA 'reverse' transfer, DNA, gene mutation, cancer virus, DNA
Rift Valley, Afar triangle, Red Sea, guyot, Gulf of Aden, sea-floor	polymerase RNA-directed DNA polymerase
spreading, continental drift, sea-floor spreading opens new ocean	1972 Jan p 24-33 [1233]
1970 Feb p 32-40 [89	RNA function, protein template 1955 July p 34 RNA molecule, genetic engineering, frog eggs, gene expression
Righi-Leduc effect, Ettingshausen effect, Hall effect, Nernst effect, galvanomagnetism, thermomagnetism, science history, industrial	bemoslobin, mRNA 1976 Aug p 60-71 [1343]
technology, technological applications of 19th c discoveries	RNA nucleotides, genetic code, tobacco mosaic virus, protein synthesis
1901 Dec D 124-13	
right-hemisphere functions, brain hemispheres, cerebral dominance, left-	amino acid changes 1964 Oct p 46-34 [199] RNA synthesis, DNA, chromosome puffs, insect chromosome hormonal
hemisphere functions, music perception, auditory perception, visual	t anduction gene regulation 1964 Apr p 50-58 [189]
perception metal ions sequestering, porphyrin ring,	antibody production, antigen-antibody reaction, lymphocytes, immune
accompanies compounds, metal-poisoning annace, commen	response, clonal selection theory 1964 Dcc p 106-115 [199] actinomyosin, ecdysone cortisone, insulin, estrogens, gene activation.
	aldosterone, growth hormone. ACTH, thyroxin michanism of
ring dove, avian reproduction, breeding cycle, sexual ochiavior, normalist	harmona action 1903 June p 36-43 [1013]
fertilization	RNA virus, cancer virus, Rous sarcoma virus, cancer virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus
ring molecules, catenane, therman topology and knotting of ring molecules, molecular structure, linking and knotting of ring 1962 Nov p 94-102 [286]	
	1967 Sept p 193
molecules rip channels, beaches, sand dune, sand bar, berm, ocean, surf, rip channels, beaches, sand dune, sand bar, berm, ocean, surf, 1960 Aug. p. 80-94 [845]	Ro gene, Rh factor, human evolution, Rh negative gene blood typing,
conservation of beaches	race (351 Hdv p 22-23
mparian sites, New World archeology, public works 1948 Dec. p. 12-17	

building, crisis in U S archeology

oad building, Inca civilization, pre-Columbian engineering 1952 July p 17–21	Romania, pictograph, Vinca culture, writing, Tartaria tablets, Sumer, cultural diffusion, Sumerian writing 1968 May p 30–37
automobiles, wheel bounce, highway engineering, 'corrugated' road	roof, architectural engineering, vault, Gothic arch, Romanesque barrel
surface, 'washboard' road surface 1963 Jan p 128–136	vault, Byzantine dome, building construction, vaulting technics 1961 Nov p 144-154
obot, manipulators, remote control, feedback, automatic control, industrial manipulators 1964 Oct p 88–96	room temperature and organic, semiconductor 1960 June p 82
assembly, labor-saving devices, computer applications, manufacturing	root pressure, Hales, plants, sap circulation, shoot tension, science
productivity, programmable robot for product assembly	history, Stephen Hales, founder of biophysics 1952 Oct p 78-82
1978 Feb p 62-74 [929]	plant nutrition, plant roots, soil minerals, transport mechanisms
obot lander, moon surface, soil, Surveyor spacecraft, surface sampler	1973 May p 48–58 [1271]
robot spacecraft, moon, manned space flight 1967 Nov p 34–43	root words, Indo-European language, linguistics, comparative grammar, reconstructing genealogy of Indo-European languages
robot spacecraft, moon, manned space flight 1960 May p 61-69 robot systems, automatic control, computer technology, instructable	1958 Oct p 63–74
machines, servomechanisms 1976 Feb p 76–86B	rot, antibiotics, plant disease, blight, smut, wilt disease, mold, mildew
rock borers, excavating machines, tunneling, earth-moving, surface	1955 June p 82–91
mining, mining 1967 Nov p 74–85	rotary engine, automobile engines, Wankel engine, Tschudi engine
rock drawings, Paleolithic culture, petroglyphs, Siberia, Paleolithic, Neolithic periods 1969 Aug p 74-82 [649]	1969 Feb p 90–99 air pollution, automobile engines, Wankel engine, auto engineering
Neolithic periods 1969 Aug p 74-82 [649] rock paintings, Bronze Age, Iron age culture, Camunian culture,	1972 Aug p 14–23
Mycenaean civilization, Italian rock carvings 1960 Jan p 52–59	rotary-wing aircraft, helicopters, hovering flight, ram jet
Rockefeller Institute, Bronk is president 1953 Aug p 41	1955 Jan p 36-40
rocket, interplanetary navigation, spacecraft, orbital motion,	rotating chemical reactions, chemical reaction, computer modeling,
communication technology, navigation, technology of space navigation 1960 Mar p 64-73	oscillating reagents, non linear reactions 1974 June p 82–95 rotating systems, eddies, negative viscosity, turbulence, wind, nonuniform
navigation 1960 Mar p 64-73 Aerobee demonstrated 1949 Feb p 28	flows, viscosity 1970 July p 72–80
rocket engine, reaction propulsion, regenerative motor, liquid fuel,	rotation, Sun, solar atmosphere, sunspots, magnetic field, eddies, solar
technology history, status of the technology on eve of space age	atmospheric circulation 1968 Jan p 100–113
1949 May p 30–39	rotation period, Jupiter, Taylor column, Great Red Spot, planetary
aviation, 'sound barrier' 1953 Oct p 36–41	atmosphere, hydrodynamic explanation vs raft hypothesis 1968 Feb p 74–82
combustion instability, resonant combustion, propellant, acoustic oscillation 1968 Dec p 94–103	rotational energy, black hole, gravitational waves, neutron stars, pulsar,
rocket fuel, hydrazine, Raschig synthesis, reducing agent	relativity theory, Red Giant stars, white dwarfs 1972 May p 38-46
1953 July p 30–33	black hole, gravitational energy, pulsar, quasars, radiation in universe
rocket launcher, artificial satellite, orbital motion, telemetry, plans for	1973 Feb p 98–105
US 10-pound (pre-Sputnik) satellite 1956 Nov p 41-47 nitric oxide 'star' 1956 May p 56	rottfer, aging, life expectancy, experiments in aging, age of mother 1953 Apr p 38–42
jet plane 1957 May p 64	rotor machine, cryptology, code, polyalphabetic systems, cipher, history
rocket nozzle, heat, materials, temperature limits, ablation, turbine	and technology of making and breaking ciphers and codes
bucket, high temperatures materials 1954 Sept p 98–106	1966 July p 38-46
rocket photograph, Earth, Earth from space 1955 Sept p 109-112 Rocky Mountain spotted fever, rickettsiae, typhus, chick-embryo culture	Rous sarcoma virus, cancer virus, cancer virus, RNA virus, leukemia, 'Rous-associated virus' capacitates 'defective' Rous sarcoma virus
1955 Jan p 74–79	1964 June p 46–52 [185]
tick-borne infection increasing 1971 July p 44	Rous-associated virus (RAV) 1963 June p 74
rod cells, eye, cone cells, retina, iris, optogram, rhodopsin, camera,	Rowland, remembered 1976 Sept p 70
anatomy and physiology of the eye, camera as metaphor 1950 Aug p 32-41 [46]	Rowland engine, diffraction grating, spectroscopy, ruling engine, Strong engine, the ultimate machine 1952 June p. 45-54
cone cells, visual cells, autoradiography, protein synthesis, renewal	engine, the ultimate machine 1952 June p 45-54 Royal Navy, white pine, North American forests, King's Broad Arrow,
mechanisms in retinal cells 1970 Oct p 80–91	American Revolution, colonial building 1948 June p 48–53
retina, receptor cells, cone cells, retinal sensitivity, retinal information	Royal Navy robots, excite mutiny 1954 June p 52
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adaptation to Arctic 1960 Jan. p 60-68	synthetic rubber, molecular structure 1956 Nov p 74–88
roentgen ray, physical properties 1960 June p 86	rubella, cleft palate, congenital anomalies, fetal injury, embryonic
roentgenology, cancer therapy, isotopes, X-ray, radiotherapy, ionizing	development, teratogenesis, teratology 1957 Oct p 109-116
radiation, dosimetry, nuclear medicine, radiation use in medicine 1959 Sept p 164-176	congenital anomalies, purpura, virus disease, vaccine, teratogenesis, pregnancy, congenital rubella
roller bearing, very-low-friction device 1967 Dec p 58	pregnancy, congenital rubella 1966 July p 30–37 virus isolated 1962 Sept p 104
Roman Britain, urban archeology, Winchester 1974 May p 32–43	measies vaccine, vaccine sougt 1963 May p 74
coins, counterfeiting, numismatics 1974 Dec p 120–130 Britain, frontier life, Hadrian's Wall, Vindolanda site	safe vaccine reported 1966 June p 55
1977 Feb p 39-46 [692]	vaccines ready 1969 June p 54 autism, measles implicated in autism 1972 Dec. p. 42
Roman civilization, Pompen, Vesuvius eruption, two-thirds of the city's	ruling engine, diffraction grating, spectroscopy. Strong engine Rowland
105,000 acres 1958 Apr p 68–78	engine, the ultimate machine 1052 June n 45 54
Roman colony, Classical archeology, Carthage, archeological 'rescue' campaign 1978 Jan p 110-120 [704]	Rumord, Carnot, Joule, science history, heat, pioneers in the theory of
Roman empire, Classical archeology, commerce, underwater archeology,	neat 1954 Sept. p 60-61 ballistics, calonic heat theory, science history, oven, heat as motion,
amphora 1954 Nov p 98–104	Benjamin Thomson, biography 1060 Oct p. 159 169
life expectancy in 100-200 A D 1960 Mar p 94	ruminants, metabolism, symbiosis, cellulose digestion, apperation
Roman glass, Egyptian glass, glass, glassmakers, faience, chemical and physical analysis of ancient glass 1963 Nov p 120–130	metabolism, fermentation, how cows digest grass
Roman technology, aqueducts, siphons, water-supply system of ancient	agricultural economics, forage crops, grasses, agronomy, hay, legumes,
Kome 1978 May n 154 161 (2000)	nvestock reed, snage, Knizobium bacteria 1976 Feb p 60 75
Romanesque barrel vault, architectural engineering, roof, vault, Gothic arch, Byzantine dome, building construction, vaulting technics	sleepless? 1955 Sept p 78
z deme, building construction, vaniting technics	
1961 Nov. p 144-154	

anatomy, how animals run 1960 May p. 148–13	Salmon, fish migration, homing behavior animat
minning dynamics, appears, saled at a	salmon, fish migration, homing behavior, animal navigation, chemotaxis
running dynamics, sports, athletics, foot pressure measured	metabolism, fish migration, swimming, laboratory observation of
1967 Mar. p. 5	energy production by salmon 1965 Aug. p. 80–85 [1019]
running records, sports, athletics, forecasting by extrapolation	how they home
rupoff ground water actories with 1952 Aug. p. 52-5	A col- 1-1. 1251 Sept. p. 30
runoff, ground water, artesian well, piezometric surface, water table,	solt Coming and fall 1 1 a.c.
water cycle, resource management, ground water in water-resource	evaporite minerals fossil record Clamps Challenger
management 1950 Nov. p. 14-19 [818	Miocene desiccation, Mediterranean as desert
eutrophication, water pollution, fisheries, fish population, Great Lakes	
sil, U.S. Oleat Lakes aging 1066 Nov 5 04 104 11064	SALT: Strategic Arms Limitation Talks
water cycle, transpiration, evaporation, agricultural system, ocean	CATT ADM MIDNE
precipitation, biosphere, photosynthesis 1970 Sept. p. 98-108 [119]	strategy, dynamics, instability of arms race
lorestry, hitrogen lixation, ecosystem resource management erosion	1969 Apr. p. 15–25 [642]
watersned, deforestation, deforestation experiment	atomic weapons, arms race MIRV counterforce strategy mutual
1970 Oct. p. 92–101 [1202	assured destruction, MIRV, as key to SALT negotiations
rural poverty, education, poverty, group behavior, community action,	1970 Jan. p. 19–29 [654]
emotional illness, social psychology, study of community	ABM systems, arms race ICRM MIRV atomic weapons atomic test
regeneration 1965 May p. 21–27 [634	ban, strategic weapons, prospects for freeze on numbers and
Russell's paradox, mathematics, set theory, non-Cantorian sets, Cantor,	qualitative improvement of weapons 1971 Jan n 15-25
non-Euclidian geometry, axiom of choice 1967 Dec. p. 104-116	arms control, antisubmarine warfare, missile submarines, mutual
rust, technetium, corrosion, oxidation, studies in corrosion	assured destruction, SLBM, sonar, acoustic detection
1956 May p. 35–39	1972 July p. 14-25 [345]
Rutherford-Soddy theory, atomic theory, element transmutation, science	arms control, satellite, strategic weapons, verification technology,
history, radioactivity, radioactive decay transmutation, reception of	'national technical means of verification' 1973 Feb. p. 14-25 [346]
'newer alchemy' 1966 Aug. p. 88–94	manual superior of the superio
Rydberg constant, physical constants, measurement, velocity of light,	antiaircraft sytems 1973 Aug. p. 11–19
electron mass, particle charge, least-squares method, standards of	mutual assured destruction, counterforce strategy, military
measurement, Planck's constant 1970 Oct. p. 62~78 [337]	expenditures, arms race, MIRV, MARV 1974 May p. 20-31
	India as atomic power, nuclear nonproliferation treaty, 'nuclear club',
	atomic test ban 1975 Apr. p. 18–33
ζ'	arms race, cruise missiles, strategic weapons, tactical weapons, control
J	systems, navigation systems 1977 Feb. p. 20-29 [691] arms control, cruise missiles, bombers, strategic weapons, Carter
S-matrix theory, mathematics, physical sciences, group theory, 'eightfold	administration 'comprehensive proposal' for U.SU.S.S.R. force
way', field theory, mathematics in physics 1964 Sept. p. 128–146	levels 1977 Aug. p. 24–31 [696]
saccades, vision, eye movement, visual attention, fovea, human eye, visual	U.SU.S.S.R. talks planned 1968 Aug. p. 42
fixation, experiments with eye-marker camera	talks begin in Vienna 1970 June p. 46
1968 Aug. p. 88~95 [516]	raise MIRV ceilings 1975 Mar. p. 47
saccules, glycoprotein synthesis, Golgi apparatus, goblet cells, mucus,	salt excretion, diabetes insipidus, thirst, electrolyte balance,
saccules, glycoprotein synthesis, Golgi apparatus, goblet cells, mucus, carbohydrate 1969 Feb. p. 100-107 [1134]	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology,
	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmorecentor theory of thirst. Cannon 'dry mouth' theory
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76
carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98
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carbohydrate 1969 Feb. p. 100-107 [1134] safety standards, 'atoms for peace', radiation hazards, gene mutation, Geneva: biology 1955 Oct. p. 38-42 sage grouse, lek behavior, sexual behavior, natural selection, lek mating behavior in sage grouse 1978 May p. 114-125 [1390] Sagittarius A, galactic center, Milky Way, quasars, radio source, Seyfert galaxies, spiral galaxies 1974 Apr. p. 66-77	salt excretion, diabetes insipidus, thirst, electrolyte balance, thermoregulation, urine, kidney, physiological psychology, osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan. p. 70-76 salt mines, salt pans, salt trade, salt in history 1963 July p. 88-98 salt pans, salt mines, salt trade, salt in history 1963 July p. 88-98 salt particles, meteorology, condensation nuclei, ocean foam, cloud physics, rain, seasalt and rain 1957 Oct. p. 42-47
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Benjamin Thomson, biography 1960	Oct. p 158-168	discrimination 1970 C	ct p 19-29 [1199]
observatory, astronomy, scientific instrumentation, Ty		gene manipulation, gene splicing, National Academy	
	Feb p 118-128	recombinant DNA, NIH guidelines 1977 Ja	uly p 22~23 [1362]
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	May p 107-116	science 1977	Oct p 34-41 [698]
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cell, connective tissue cell, introduction to single-to	pic issue on the	Max Planck Institutes	1949 Apr p 27
	ept p 50-61 [90]	cabinet 'department of science' opposed	1949 May p 26
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	961 Dec p 84-94	· • • • • • • • • • • • • • • • • • • •	1958 May p 51
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	1 Dec p 124-136	Scientists' Institute for Public Information	1963 May p 74
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19	67 Aug p 96-102	science-adviser post eliminated	1973 Mar p 44
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	0 May p 116-122	congressional veto on N S F grants	1975 July p 45
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	ıg p 92–100 [336]	People's Republic of China science planning	1978 June p 74
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	72 Mar p 92–106	US science-attache program	1956 Jan p 62
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	972 Aug p 76-83	US-USSR exchange program	1956 July p 48
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	973 Dec p 86–101	US provincialism	1950 Jan p 46-47
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1	976 May p 98-107	US National Abstracting and Translation Center	1958 June p 48
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	1960 July p. 8	sea-floor spreading, magnetic field, volcanic rocks, paleomagnetism,
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19	61 Feb. p. 118-128	continental drift, plate tectonics, ocean ridges, convection currents,
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science, introduction to single-topic issue on inno	s piniosophy of	Afar triangle, Red Sea, Rift Valley, guyot, Gulf of Aden, continental
		drift, sea-floor spreading opens new ocean 1970 Feb. p. 32-40 [891]
Parasis and Industrial Devices of the Control	1958 Sept. p. 58-65	brine, Red Sea hot brines, salinity, percolation, ocean floor
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scientists, science education, liberal arts colleges, origin	is of U.S. scientists	Triassic period. Pangaea, computer modeling supercontinents.
	1951 July p. 15-17	breakup of Pangaea traced 1970 Oct. p. 30-41 [892]
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psychological study of 64 eminent scientists 1	952 Nov. p. 21-25	carbonate, hydrologic cycle, why the sea is salt
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talents wasted in uniform		2 · · · · · · · · · · · · · · · · · · ·
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	955 Aug. p. 34-39	Himalaya formation, India-Eurasia collision, plate tectonics, Tibelan
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	9 Jan. p. 120-130	magnetic-reversal data 1967 Aug. p. 40
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Chara tombe refriderated tulius, atomor	i by	and trates composition, sea-floor spreading, volcanoes, rain, geochemical
Mountains, cloth, leather and wood artifacts page 1965 N	lay p. 100–109	cycle, salinity, carbonate, hydrologic cycle, why the sea is salt
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_	motion seismology 1977 Dec p 68–78 [928]
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Earth mantle convection 1955 July p 36-41	ocean floor, sonar, sedimentary cores, Albatross voyage, isotope dating,
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Calcium anchoneses and an array of the second final	
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semiconductor, solar battery, solid state physics, photoelectric effect, Pacinian corpuscle, touch, olfactory receptors, taste receptors, energy transformation 1955 Dec. p. 102-110 mechanoreceptors pain receptors, biological transducers thermoelectricity, Seebeck effect, Peltier effect 1958 Nov. p 31-37 particle detector, particle physics, solid state physics, particle 1960 Aug. p 98-108 [70] human eye, optical illusion, vision, 'after effects', visual cortex, 'corucal accelerator, semiconductor particle-detector satiation' 1962 Jan p 44-49 1962 Oct p 78-88 [284] offactory nerve, stereochemistry, offaction, stereochemical theory of superconductivity, superconductivity in semiconductors odor perception 1964 Feb p 42-49 1964 June p. 56-59 human anatomy, neuropsychology, eye, ear, Descartes, 17th c light-emitting diode, laser, electron beam, junction diode, solid-state approach to human perception, mechanistic hypothesis 1967 May p 108-122 crystal structure, solid-state electronics, X-ray crystallography, metals, 1964 May p 108-116 [184] kinesthetic memory, spatial orientation, sensory feedback, plasticity in nonmetals, materials technology, amorphous solid, electrical sensory-motor systems in man and cats 1965 Nov p 84-94 [494] conductivity 1967 Sept p 80-89 learning, vision, touch, visual perception dominates touch electrical conductivity, Fermi surface, materials technology, quantum 1967 May p 96-104 [507] mechanics, charge carriers, electron mean free path, electrical see also perception, visual perception and the like properties of materials 1967 Sept p 194-204 sensory systems, animal behavior, sharks, attack prevention, feeding accelerated-ion technique, ion implantation, microelectronics, 'doping' behavior 1962 July p 60-68 [127] 1973 Apr p 64-71 brain circuitry, mammalian brain, nerve signals, stimulus localization, electromagnetic radiation, electron-hole liquid, exciton, quantum visual perception, superior colliculus in integration at brain function mechanics 1976 June p 28-37 1972 Dec p 72-82 [553] room temperature and organic 1960 June p 82 sentence, grammar, truth, logic, philosophy, metalogic, mathematical ace also amorphous semiconductors proof, antimony of the liar, proof and truth 1969 June p 63-77 semiconductor memories, charge-coupled devices, charge transfer, sentry-box experiment, Franklin, science history, electrical nature of computer memory, image sensing 1974 Feb p 22-31 lightning, 'electrical fluid', Benjamin Franklin, life and work charge-coupled devices, digital computer, magnetic bubble memories, 1948 Aug p 36-43 moving-surface memories, microelectronics seond sound, superfluidity, helium 1, helium 2, quantum mechanics, low-1977 Sept p. 130-145 [378] temperature physics, liquid helium properties semiconductor technology, electric power generation, photovoltaic 1958 June p 30-35 [224] conversion, silicon-crystal structure, solar cells 1976 Oct p 34-43 separation techniques, spectroscopy, mass spectroscopy, ion beam amorphous semiconductors, nonperiodic systems, Ovshinsky devices, 1953 Mar p 68-74 quantum mechanics, switching phenomena density-gradient, ultracentrifugation 1965 Aug p 70-76 1977 May p 36-48 [362] high-gradient magnetic separation, kaolin punfication, magnetic 1975 Nov p 46-54 integrated circuits, logic gates, metal-oxide semiconductors, separation, wastewater purification 1955 Feb p 60 microelectronics, transistor 1977 Sept p 70-81 [375] pH gradient sequential analysis, quality control, statistical sampling, probability semicrystalline polymers, amorphous polymers, polymer microstructure, 1953 Mar p 29-33 random-coil model, synthetic polymers, thermoplastic polymers 1975 Dec p 96-106 sequential processing, computer technology, computer programming, semimetal, crystallography, magnetothermoelectricity, thermomagnetic parallel processing, ILLIAC IV fastest computer 1971 Feb p 76-87 cooling, solid-state refrigeration 1964 June p 70-82 sequestering, chelation, metal ions, ring compounds, porphyrin ring, Semites, Mycenaean civilization, Hebrew civilization, Linear A script, Linear B script, Minoan civilization, Crete, common origin of Greek organometallic compounds, metal-poisoning antidote, chemical 1953 June p 68-76 and Hebrew civilizations 1965 Feb p 102-111 serial passage, poliomyelitis virus, tissue culture, rhesus embryo, polio Sendai virus, cell culture, cell hybridization, cell differentiation, hybrid vaccine, tissue culture of virus opens way to vaccine cells, gene mapping, mouse-rat, mouse-human hybrid cells in 1952 Nov p 26-29 1969 Apr p 26-35 [1137] laboratory serial-recognition hypothesis, eye movement, pattern recognition, scan senility, aging, gerontology, longevity, medical care 1973 Sept p 44-52 1971 June p 34-43 [537] path recordings, visual perception senior societies, elections to National Academy of Sciences and American serotonin, acetylcholine, hormone, nerve impulse, synapse, emotional 1949 June p 28 Philosophical Society illness, neurotransmitters, central nervous system, physiological sensory deprivation, vision, learning, experience, 'arrested vision', role of psychology, chemical mediation of nerve impulses environment experience in normal development 1957 Feb p 86-94 1950 July p 16-19 [408] auxins, LSD, comparative physiology, neurophysiology, physiological electroencephalography, perceptual isolation, hallucination, boredom, 1957 Dec p 52-56 neuropsychology, effect of exposure to monotonous environment function of serotonin adrenal gland, pineal organ, biological clock, estrogens, progesterone, 1957 Jan p 52-56 [430] melatonin, pineal regulation of sex glands 1965 July p 50-60 [1015] brain development, environmental stimuli, learning, memory, rats brain function, carbohydrate, neurotransmitters, human nutrition, 1972 Feb p 22-29 [541] 1974 Feb p 84-91 [1291] tryptophan, feedback sensory discrimination, afterimages, color vision, photochemistry, visual serum protein analysis, human population, genetic drift, race, population pigments, photochemistry of color perception 1974 Sept p 80-89 genetics 1963 Oct p 84-93 [1089] serum proteins, catalytic proteins, enzyme action, protein cutting sensory feedback, kinesthetic memory, sensory perception, spatial enzymes, proteolytic enzymes, chymotrypsin, elastase, trypsin orientation, plasticity in sensory-motor systems in man and cats 1974 July p 74-88 [1301] 1965 Nov p 84-94 [494] serum sickness, allergy, immune reaction, antigens, antibodies, 1971 Mar p 65-73 [1217] muscle contraction, physiological tremor 1948 July p 26-29 hypersensitivity muscle control, muscle spindles, psychophysics, servomechanisms, service workers, labor force, productivity, production workers 1972 May p 30-37 [1249] stretch reflex, tendon organ 1951 Sept p 36-41 coordination of movement, eye head coordination, visual targeting servomechanisms, feedback, control loop, flyball governor, positive 1974 Oct p 100-106 [1305] feedback, negative feedback, ecological system, nervous system, sensory organs, hearing, vision, ommatidia, neuroreceptor cells, cytology, economic system, automatic control, feedback concept 1961 Sept p 222-238 [99] taste buds, how cells receive stimuli 1952 Sept p 48-55 heat sensors, infrared receptors, snake, infrared laser, herpetology control systems, automatic control, actuators, frequency response, 1973 May p 94-100 [1272] pneumatic servomechanisms, hydraulic servomechanisms, control sensory perception, genetic disease, inherited sense defects 1952 Sept p 56-64 1952 May p 64-70 [406] systems muscle control, muscle spindles, psychophysics, sensory feedback, auditory discrimination, bats, bat sonar, sonar, echo-sounding, 1972 May p 30-37 [1249] stretch reflex, tendon organ 1958 July p 40-49 [1121] automatic control, computer technology, instructable machines, robot supersonic sonar of bats 1976 Feb p 76-86B systems

set theory, mathematics, logic, paradox, non-Euclidian space, non-	baboons, human evolution, social behavior, comparative psychology,
commutative algebra, Hilbert spaces, science, mathematics 1900-	social anthropology, Kung bushmen, origin of society
1950, undecidable questions 1950 Sept p 40-42	1960 Sept p 76–87 [602]
infinity, equivalent sets, cardinal number, Cantor 1952 Nov p 76-84	baboons, social behavior, comparative psychology, baboon troops in
creativity, mathematical invention, analytic geometry, Fermat's last	their natural environment 1961 June p 62–71 [614]
theorem, innovation in mathematics 1958 Sept p 66-73	animal behavior, evolution, innate behavior, lovebird, interspecies
mathematical proof, foundations of mathematics, mathematical	differentiation of behavior 1962 Jan p 88–98
philosophy 1964 Sept p 112-127	pheromones, insect physiology, queen substance, muskone, social
botany, taxonomy, computer applications, zoology, numerical	behavior, ants, Gypsy moths, mice 1963 May p 100-114 [157]
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1966 Dec p 106-116 [1059]	releaser stimulus, ethology, natural history
mathematics, non-Cantorian sets, Russell's paradox, Cantor, non-	1963 Aug p 38-46 [1098]
Euclidian geometry, axiom of choice 1967 Dec p 104-116	avian reproduction, ring dove, breeding cycle, hormone, fertilization
continuum hypothesis and axiom of choice 1964 Jan p 55	1964 Nov p 48-54 [488]
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taxation, Los Angeles, New York, metabolism of cities	Chelonia mydas, green turtle, 1,400 mile journey
1965 Sept p 178–190	1965 May p 78-86 [1010]
sewage treatment, water pollution, biological oxygen demand, radioactive	animal behavior, speciation, gulls, evolution, innate behavior, ethology,
waste disposal, stream pollution 1952 Mar p 17-21	species discrimination, Larus, eye rings 1967 Oct p 94-102 [1084]
phosphorus from sewage 1950 Apr p 34	mosquitoes, yellow fever, reproduction, eggs, larvae, Aedes Aegypti
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foaming detergents 1953 July p 48	marine birds, phalarope, animal behavior, parental care, sex role,
sex attractants, insect behavior, bee dances, pheromones, courtship	hormone 1969 June p 104-111
display 1972 Sept p 52-60 [1280]	fruit fly, releaser stimulus, courtship song, insect behavior, species
gypsy moth, biological pest control, pheromones, olfactory receptors,	specificity 1970 July p 84-92
silk moth, chemotaxis, communication 1974 July p 28–35 [1299]	albatross, evolution, animal behavior, bird flight, soaring, natural
sex change surgery, psychology should govern 1951 Apr p 35	history 1970 Nov p 84–93 [1204]
sex chromatin, in female skin cells 1954 Dec p 58	animal behavior, courtship display, turkeys, pecking order, lek
sex determination, electrophoresis, spermatozoon motility, gene	behavior, Welder Wildlife Refuge 1971 June p 112-118
manipulation, sorting out Y-bearing sperm by electrophoresis	birds, finches, numicry, parasitism, widow birds, animal behavior
1958 Nov p 87–94	1974 Oct p 92–98
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Klinefelter's syndrome, Turner's syndrome, chromosomal anomalies,	sensitive neurons, sex hormones, sex differences, steroid hormones,
sex differences in tissue cells 1963 July p 54–62 [161]	action of hormones on nerve tissue 1976 July p 48-58 [1341]
animal behavior, hypothalamus, testosterone, physiological	lek behavior, sage grouse, natural selection, lek mating behavior in sage
psychology, sex hormones, pituitary hormones, sex differences in rat	grouse 1978 May p 114-125 [1390]
brain, effect of testosterone 1966 Apr p 84-90 [498]	human sexual response 1966 June p 54
adrenal hormones, brain circuitry, gonadal hormones, hormone-	sexual characteristics, ACTH, hormone, growth, thyroid-stimulating
sensitive neurons, sex hormones, sexual behavior, steroid hormones,	hormone, follicle-stimulating hormone, prolactin, androgens,
action of hormones on nerve tissue 1976 July p 48-58 [1341]	estrogens, secondary sexual characteristics, human physiology,
in spatial perception 1974 Nov p 50	endocrine system, chemical integrators of the body
sex hormones, steroid hormones, vitamin D, cholesterol, cortisone	1957 Mar p 76-88 [1122]
1955 Jan p 52–60 [8]	sexual recombination, population genetics, evolution, E coli, Drosophila,
animal behavior, sex differences, hypothalamus, testosterone,	mutation, speciation, natural selection, genetic basis of evolution
physiological psychology, pituitary hormones, sex differences in rat	1950 Jan p 32-41 [6]
brain, effect of testosterone 1966 Apr p 84-90 [498]	sexual reproduction, bacteriophage, genetic exchange 1948 Nov p. 46-51
birth control, reproductive physiology, human population	heredity, evolution, origin of sexual reproduction 1949 Apr p 52-55
1974 Sept p 52–62	bacteria, conjugation, recombinant DNA, gene recombination,
adrenal hormones, brain circuitry, gonadal hormones, hormone-	sexuality in bacteria 1956 July p. 109-118 (50)
sensitive neurons, sexual behavior, sex differences, steroid hormones,	spiders, leeches, spermatozoon transfer, sponges, bedbugs, unorthodox
action of hormones on nerve tissue 1976 July p 48-58 [1341]	memods of sperm transfer 1956 Nov p. 121_122
from tomatoes 1951 May p 36	Hydra, asexual reproduction, cell differentiation, growth regulation,
sex linked traits, cytoplasmic inheritance, reciprocal crossing, maternal	carbon dioxide as 'sex gas' 1959 Apr p 145-156
inheritance, non-Mendelian inheritance, male sterility, paramecium,	tertilization, sea urchin, spermatozoon, acrosome reaction, moment of
chloroplast, plastids, cytogene, review of evidence for an extra- chromosomal genetics 1950 Nov p 30-39 [39]	fertilization 1959 July p 124–134
color blindness, dichromatism, physiology and psychology of a vision	fertilization, ionic regulatory mechanisms
defect 1951 Mar p 48–53	Sev fort galaxies, guessers, and a several sev
sex role, marine birds, phalarope, sexual behavior, animal behavior,	Seyfert galaxies, quasars, galactic nucleus, radio emission
parental care, hormone 1969 June p 104–111	galactic center Milly, West and 1969 Jan p 28-37
developed countries, labor force, human population, women's status	galactic center, Milky Way, quasars, radio source, Sagittarius A. 50-37 galaxies
1974 Sept p 136-147	galaxies 1974 Apr p 66-77 shad migration, animal navigation, chemotaxis, herring, homing behavior,
housework time spent in housework 1974 Nov p 116–120	temperature as migration control 1973 Mar p 92-98 (1268)
developing countries, UN conference on women's role	temperature as migration control 1973 Mar p 92-98 [1268] shadow photography, shock waves, speed of sound, Mach cones,
1975 Sept p 53	aerodynamics, ballistics 1949 Nov. p. 14.10
housework increase 1976 Apr. p. 61	shadow-sensitive receptors, visual perception, visual systems, scallop, surf
female-role ideology, women's aspirations, attitude survey	clam, inhibitory impulse, invertebrate 'eyes' as models for study of
1972 Ian n 3d_12	
sexton, abacus calculating machine, Galileo's sexton, mechanical	Organization of sensation in netcention 1062 tules 122 100
calculators, slide rule 1976 Apr. n. 101_113	shagbark hickory, hickory, fences, axe-handles, smoled ham, held-
Sexual haborron animaking	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest natural bettory.
sexual behavior, courtship display, animal behavior 1950 July p. 52-55	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history Shakespeare as physicist, anticipator of wireless relativity at the state of the sta
sexual behavior, courtship display, animal behavior 1950 July p 52-55 stickleback, courtship display, animal behavior, displacement activity,	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history 1948 Sept p 40-43 Shakespeare as physicist, anticipator of wireless, relativity, atom bomb, a report from S. Holmes himself.
sexual behavior, courtship display, animal behavior 1950 July p 52-55 stickleback, courtship display, animal behavior, displacement activity, ethology	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history 1948 Sept p 40-43 Shakespeare as physicist, anticipator of wireless, relativity, atom bomb, a report from S Holmes himself 1951 Apr p 52-53 shale, fossil fuel, petroleum reserves, coal reserves.
sexual behavior, courtship display, animal behavior 1950 July p 52-55 stickleback, courtship display, animal behavior, displacement activity, ethology 1952 Dec p 22-26 [414] bowerbirds, courtship display, animal behavior, arena behavior, Australian bowerbird, natural history 1056 July p 52-55	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history 1948 Sept p 40-43 Shakespeare as physicist, anticipator of wireless, relativity, atom bomb, a report from S Holmes himself 1951 Apr p 52-53 shale, fossil fuel, petroleum reserves, coal reserves, energy consumption, hquid-fuel consumption, tar sands, coal liquifaction, the fuel
sexual behavior, courtship display, animal behavior 1950 July p 52-55 stickleback, courtship display, animal behavior, displacement activity, ethology 1952 Dec p 22-26 [414] bowerbirds, courtship display, animal behavior, arena behavior, Australian bowerbird, natural history 1056 July p 52-55	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history 1948 Sept p 40-43 Shakespeare as physicist, anticipator of wireless, relativity, atom bomb, a report from S Holmes himself 1951 Apr p 52-53 shale, fossil fuel, petroleum reserves, coal reserves, energy consumption, hquid-fuel consumption, tar sands, coal liquefaction, the fuel problem
sevual behavior, courtship display, animal behavior 1950 July p 52-55 stickleback, courtship display, animal behavior, displacement activity, ethology 1952 Dec p 22-26 [414] bowerbirds, courtship display, animal behavior, arena behavior, Australian bowerbird, natural history 1956 June p 48-52 penguin behavioral adaptation, Antarctica, natural history	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history 1948 Sept p 40-43 Shakespeare as physicist, anticipator of wireless, relativity, atom bomb, a report from S. Holmes himself 1951 Apr p 52-53 shale, fossil fuel, petroleum reserves, coal reserves, energy consumption, hquid-fuel consumption, tar sands, coal liquefaction, the fuel problem 1949 Dec p 32-39 shale retorts, energy economics, tar sands, oil chalse retorts.
sexual behavior, courtship display, animal behavior 1950 July p 52-55 stickleback, courtship display, animal behavior, displacement activity, ethology 1952 Dec p 22-26 [414] bowerbirds, courtship display, animal behavior, arena behavior, Australian bowerbird, natural history 1956 [416]	shagbark hickory, hickory, fences, axe-handles, smoked ham, hickory nuts, economic botany, forest, natural history 1948 Sept p 40-43 Shakespeare as physicist, anticipator of wireless, relativity, atom bomb, a report from S Holmes himself 1951 Apr p 52-53 shale, fossil fuel, petroleum reserves, coal reserves, energy consumption, liquid-fuel consumption, tar sands, coal liquefaction, the fuel

shale rotors, oil shales, mining, energy resources, fossil fuel, oil from	metacetta avaludas as
30000	meteorites, exploding wire, streak photography, generation of shock waves by exploding wire 1962 May p. 102-112
Shanidar cave, Neanderthal man, human evolution, Neolithic archeolog layer by layer, 100,000 years occupation by man 1957 Nov p 58-	y, gas compression, shock tube, high temperature plasma mechanically
simily to rise nousing, kind asc. population density for those government	and electromagnetically driven shock waves 1963 Feb 2 100 110
regulation, urban prinning, cities, control of land use	the solar system
Calcutta cities urbanication cata house 1965 Sept. p. 150-16	(A)
Calcutta, cities, urbanization, caste, housing, poverty, traffic, Calcutta a city of the poor 1965 Sept. p. 90-10	1969 May p 82-91
squatters, land use, urban sociology, housing, 'barriadas' of Lima, Per	
1967 Oct n. 217	formation, stellar evolution, birth of massive stars 1978 Apr p 110-118 [3005]
shape, topology, polygons, polyhedra, tessellation, space-filling	shoot tension, Hales, plants, root pressure, sap circulation, science
shaped field, electromagnetism, superconductivity, magnetic bottle,	history, Stephen Hales, founder of biophysics 1952 Oct p 78-82
materials technology, development and applications of supermagnet	short-term inchery, conditioned behavior, learning, long-term memory, lobotomy, octopus, touch, sensory perception, correlation of brain
1962 June p 60-67 [279	structure and function in octopus 1965 Mar p 42-50 [1006]
sharks, incidence of attacks on humans 1957 June p 54-6 animal behavior, attack prevention, sensory systems, feeding behavior	digit recall, long-term memory, memory, tachistoscope
1962 July p. 60-68 1127	1966 July p 90-95 [499] Information retrieval, learning, long-term memory, memory
shatter cones, coesite, meteorites, astroblemes, cratering, fossil Earth-	1971 Aug n 82-90 [538]
catastrophes 1961 Aug p 50-58 [80] sheep shearing, hair-cell growth inhibited by drug 1968 Dec p 50	shrews, body temperature, metabolism, thermoregulation, surface to-
sheep shearing, hair-cell growth inhibited by drug 1968 Dec p 50 sheet erosion, rain drop, elutriation, soil erosion, micromechanics of soil	
erosion 1948 Nov. p. 40–42	shrimp, 'false bottom', marine biology, plankton, sonar, heteropod, deep- sea scattering layer, deep-sea 'layer of life' 1951 Aug. p 24-28
sheet-metal production, circle-grid analysis, crystal structure, metal	Siamese cat, albinism, gene mutation, visual cortex, white mink, white
stamping, strain hardening, metal structure 1976 Nov p 100-108 shelf sediments, continental shelf, glaciation, ocean, marine geology	tiger, cross-eyed trait 1974 May p 44-54 [1294]
1969 Sept p 106–122 [882]	Siberia, Arctic, Stone Age hunters, Alaska, Greenland, Dorset culture, circumpolar Stone Age culture 1954 June p 82-88
shell hypothesis, spectroscopy, Doppler effect, red shift, quasars, radio	Scythian culture, tombs, refrigerated tombs, archeology, Altai
source, absorption lines clue to quasar structure 1970 Dec p 22-29	Mountains, cloth, leather and wood artifacts preserved by
shell model, atomic nucleus, 'magic numbers', spin-orbit coupling, table of isotopes 1951 Mar p 22-26	refrigeration 1965 May p 100-109 Paleolithic culture, rock drawings, petroglyphs, Paleolithic, Neolithic
atomic nucleus, optical model, high-energy physics, liquid-drop model,	periods 1969 Aug. p 74-82 [649]
charge exchange, spin-orbit force, resonance 'particles', proton,	sickle cell disease, malaria, amino-acid substitution, anemia, hemoglobin
neutron, structure of the nucleus 1959 Jan p 75-82 nuclear fission, heavy nuclei, liquid-drop model, neutron, uranium 235,	1951 Aug p 56-59 anemia, hemoglobin S, human evolution, malaria hematology, adaptive
fission fragments 1965 Aug p 49–59	benefits of sickle-cell anemia 1956 Aug p 87-94 [1003]
atomic nucleus, nuclear fission, charge distribution, nuclear probe,	erothrocyte, gene mutation, genetic disease, single gene-single
shape and size of nucleus 1969 Aug p 58-73 shelter belts, dust storms, drought, dry-land farming, soil reclamation,	aminoacid deletion 1958 Jan p 68-74 chemotherapy, cyanate, genetic disease, anemia, hemoglobin,
agricultural technology, mulch, U.S. High Plains 1948	erythrocyte 1975 Apr p 44-50 [1319]
1948 Aug p 7–11	in whites 1951 Sept p 58 found in India 1952 May p 42
Sherrington, eye, Charles Scott Sherrington on the eye 1952 May p 30-34	malaria immunity 1954 Apr p 52
ship burial, Sutton Hoo, Anglo-Saxon King, a treasure hoard	anemia, chemical basis of hemoglobin mutation 1957 Aug p 58
1951 Apr p 24-30	Siegfried legend, commerce, Vikings, nomads, Scandinavia, Vinland, seafaring, Svea, appraisal of 400-year Viking ascendance
ship propulsion, electric power generation, steam turbines, turbine blade design, construction of turbines, applications, history	seararing, Svea, appraisar of 400-year viking ascendance
1969 Apr p 100-110	sieve of Eratosthenes, mathematics, prime number, science history,
shipbuilding, Byzantine shipping, Rhodian sea law, underwater	mathematical sieves and their uses 1958 Dec p 105-112 signal behavior, ornithology, crow, animal behavior, language of crows
archeology, shipwreck of 17th century 1971 Aug p 22-33 hipping, cargo handling, containerization, automatic control, loading, air	1959 Nov p 119–131
transport 1968 Oct p 80-88	signal processing, sound waves, communication technology, crystal
hipworm, Teredo, cellulose digestion, natural history 1961 Feb p 132-142	surface waves, electronic equipment, Rayleigh waves, ultrasonic waves 1972 Oct p 50-68
hock, traumatic shock, capillary bed, electrolyte balance, cardiovascular	signal transmission, communication technology, laser, multiplexing,
system, blood transfusion 1952 Dec. p. 62–68	signal transmission by laser 1966 Jan p 19-27 [302] silage, agricultural economics, forage crops, grasses, agronomy, hay.
hibernation, hypothermia, surgery, metabolism, body temperature, artificial lowering of body temperature for surgery and shock	legumes livestock feed niminants. Rhizobium bacteria
1958 Mar p 104–114	1976 Feb p 60-73
homeostasis, wound shock, body fluids, emergency medicine, treatment	'silent majority', public opinion, Vietnam war 1970 June p 17-25 [656] silica-sphere packing, diffraction, gemstones, grain structure, opal colors,
of shock 1958 Dec p 113-124 hock hypothesis, diamond, meteorites, Canyon Diablo meteorite, iron-	periodic structures 1976 Apr p 84-93
nickel phases asteroids, origin of meteorites 1965 Uct p 20-36	silicates, alumnates, materials technology, ceramics, crystal structure, heat resistance, ionic bonds, covalent bonds, nature of ceramics
hock therapy, schizophrenia, psychotherapy, psychoanalysis, psychosurgery, the case for psychotherapy 1953 Jan p 58-63 [447]	1967 Sept p 112-124
to all take heat placing magnetonydrogynamics, solai prominences,	silicon, silicon, polymers, carbon, plastics, silicon in place of carbon 1948 Oct p 50-53
	polymers, silicon, carbon, plastics, silicon in place of carbon
and compression shock waves, high temperature, plasma, mechanisms	1948 Oct p 30-33
and electromagnetically division and electromagnetical division and electromagnetic division and el	elements, living matter, essential elements, metallo enzymes, fluorine, tin, vanadium, list of elements essential to life lengthened to 24
	1972 July p 52-60
aerodynamics, ballistics aerodynamics, supersonic flight, wind tunnel, molecular beam, ultra- aerodynamics, supersonic flight, wind tunnel, molecular beam, ultra- light participation supersonic aircraft	silicon carbide, nonmetallic crystals 1965 Mar p 56 silicon 'chips', integrated circuits, electronic components industry,
some hoom supersonic light, noise polition, supersonic 1	transistor, microelectronics 1965 Nov p 56-70
design, geometry of shock waves	

electron optics, microcircuit fabrication, computer-controlled	skin temperature, anxiety, polygraph, lying, psychosomatic illness, guilt, breathing, pulse rate, 'lie detector' mis-named
fabrication, computer technology, integrated circuits 1972 Nov. p. 34-44	1967 Jan. p. 25–31 [503]
integrated circuits, metal-oxide semiconductors, microelectronics, transistor 1973 Aug. p. 48-57	medical diagnosis, thermography, tumor, arthritis, circulatory disorders 1967 Feb. p. 94-102
integrated circuits, metal-oxide semiconductors, microcomputers, microelectronics, microprocessors, minicomputers	skin transplants, graft rejection, immune response, biochemistry of 'self' 1957 Apr. p. 62-66
1975 May p. 32–40	Skinner box, color vision, learning, conditioned behavior, behavioral
electronic circuitry, integrated circuits, microelectronics, technological innovation, introduction to single-topic issue on microelectronics	psychology, visual discrimination, pigeons conditioned to respond to discrete wavelengths of light 1958 Jan. p. 77-82 [403]
1977 Sept. p. 62-69 [374] silicon-crystal structure, electric power generation, photovoltaic	learning, visual perception, Fechner's law, psychophysics, behavioral psychology, conditioned behavior, pigeon perception
conversion, semiconductor technology, solar cells	1961 July p. 113–122 [458]
1976 Oct. p. 34-43	skua, evolution, speciation, guillemot, melanism, ornithology, avian evolution 1957 May p. 124-134
silicon polymers, inorganic polymers, materials technology, polymer structure, polymeric sulfur 1974 Mar. p. 66-74	animal behavior, Antarctica, ornithology, south polar skua
silk moth, gypsy moth, biological pest control, pheromones, olfactory	1964 Feb. p. 94-100
receptors, sex attractants, chemotaxis, communication 1974 July p. 28-35 [1299]	sky survey, Schmidt telescope, astronomy, the 48-inch Schmidt telescope at Palomar Mountain 1950 Dec. p. 34-41
silkworm, insect metamorphosis, neurophysiology, insect behavior,	Palomar telescopes 1954 Aug. p. 38
cocoon, cocoon record of silkworm spinning movements 1956 Apr. p. 131-140	skyscrapers, curtain wall, building construction, load-bearing wall 1955 Mar. p. 44–48
entomology, juvenile hormone, insect metamorphosis, hormone arrests	wind bracing, construction technology, Eiffel Tower, cantilever, truss
development 1958 Feb. p. 67-74	bridge, steel frame construction, curtain wall 1974 Feb. p. 92-105
olfaction, taste, chemical senses, insect chemoreception, comparative physiology 1958 Apr. p. 97-106	slab avalanche, snow, avalanche, loose-snow avalanche 1954 Jan. p. 26–31
silt, eutrophication, water pollution, fisheries, fish population, runoff,	slash-burn agriculture, agricultural revolution, Neolithic archeology,
Great Lakes, U.S. Great Lakes' aging 1966 Nov. p. 94-104 [1056]	tools, cultural evolution, Stone Age forestry and agronomy
silver artifacts, medieval archeology, Scotland, St. Ninian's Isle, the treasure of St. Ninian's 1960 Nov. p. 154-166	1956 Mar. p. 36-41 rain-forest ecosystem, ecological fragility, tropical rain forest, fungal
silver halide, photography, emulsion, photographic development,	hyphae 1973 Dec. p. 58–67 [1286]
photochemistry 1952 Nov. p. 30–33	slave trade, colonization, human population, human migration, immigration policy 1974 Sept. p. 92–105
silver iodide, weather control, cloud seeding, Project Cirrus, condensation nuclei, dry ice 1952 Jan. p. 17–21	immigration policy 1974 Sept. p. 92–105 slavery, agricultural revolution, Classical civilization 1949 June p. 40–43
sine-generated curve, riverbed, meanders, hydraulics, least-work path for	black power, American Negro, racial discrimination, group identity,
river 1966 June p. 60–70 [869] singing voice, music, voice, pharynx, larynx, acoustics of singing voice	economic power, ethnic groups, social deprivation 1967 Apr. p. 21–27 [633]
1977 Mar. p. 82–91	SLBM: submarine-launched ballistic missile
vibrato from feedback control 1959 Mar. p. 66 single-stranded DNA, DNA, phage X174, gene mutation	SLBM, ABM, arms race, ICBM, MIRV, mutual assured destruction, counterforce strategy, strategic balance, national security
1962 July p. 109-116 [128]	1969 Aug. p. 17–29 [330]
singularity, gravity, stellar evolution, space-time continuum, gravitational	arms race, missile submarines, MIRV, Polaris, Trident, Poseidon
collapse, thermal pressure, gravitational radius, black hole 1967 Nov. p. 88–98	missile 1972 June p. 15–27 [344] arms control, antisubmarine warfare, missile submarines, SALT,
sinus node, atrioventricular node, heart contraction, heart rate, cardiac	mutual assured destruction, sonar, acoustic detection
pacemaker 1967 Mar. p. 32-37 [1067] siphons, Roman technology, aqueducts, water-supply system of ancient	1972 July p. 14-25 [345] sleep, biological clock, body temperature, waking
Rome 1978 May p. 154–161 [3009]	1952 Nov. p. 34–38 [431]
sister exchange, Africa, marriage, marriage contracts 1975 Dec. p. 84-94 size constancy, visual perception, optical illusion, distortion, pictures as	hypnosis, suggestibility, physiological psychology, experiments in hypnosis
objects, illusions arise from normally useful mechanisms	electroencephalography, brain waves, learning, conditioned behavior
size perception, visual perception, 'Ames room', distance perception,	correlation of brain waves to behavior 1959 Aug n 80.06
motion perception, optical illusion, illusions as clues to organization	dreams, electroencephalography, REM sleep, function of dreams 1960 Nov. p. 82-88 [460]
of perception 1951 Aug. p. 50-55 skid row, emotional illness, community mental-health centers, drug	stimulus filter 1969 May p. 54
addiction, psychoactive drugs, 'deinstitutionalization' of the	sleep deprivation, cerebrospinal fluid, goat experiments 1976 Aug. p. 24-29 [571]
emotionally ill 1978 Feb. p. 46-53 [581] skin, dermatoglyphics, hair, surface area, skin glands, thermoregulation,	humoral sleep-inducing factor 1967 Oct. p. 56
structure and function of human skin 1965 Feb. p. 56–66 [1003]	sleep peptide, makes sleep contagious 1974 Jan. p. 51 sleep research, dreams, electroencephalography, reticular formation,
cancer, ultraviolet radiation, melanocytes, suntanning, epidermis,	brain waves, paradoxical sleep, REM sleep, cat brain, the states of
bacteria, ectoparasites, fungi, lice, hair, human skin ecosystem	sleep 1967 Feb. p. 62–72 [504]
1969 Jan. p. 108–115 [1132]	pace of dreams over time
dermatoglyphics, epidermal ridges, chromosomal anomalies 1969 Dec. p. 72-84 [1164]	effect of environment on dream 1958 Sept. p. 90
ectoparasites, 'New Year Greeting' a poem by W.H. Auden occasioned	sleepwalkers, do not dream at same time
by article in January 1969 issue 1969 Dec. p. 134 skin color, hyla, chameleon, catfish, chromatophores, how animals	slide rule, abacus, calculating machine, Galileo's sexton, mechanical
change color 1052 Mar n 64-67	sliding surfaces, friction, Leonardo, Coulomb technology history
American Negro, blood typing, recessive gene, maringe preferences, population genetics, genetic meaning of race 1954 Oct. p. 80–85	INDICCULAR CORRESION "CONDUCTION"
hormone, pigmentation, melanin, melanocytes, melatonin	acrasin in cell aggregation
skin glands, dermatoglyphics, skin, hair, surface area, thermoregulation,	amoebae, cell differentiation, social amoebae, Dictyostelium cell
structure and function of human skin 1965 Feb. p. 56-66 [1003]	aggregation, acrasin 1959 Dec. p. 152–162 amoebae, social behavior, Dictyostelium, chemotaxis communication,
	spatial orientation 1963 Aug. p. 84–93 [164]
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acrasm, amoebae, adrenalm, social amoebae, Dictyostelium, cycle	
1960 June 70	soaring, aerodynamics, bird flight, airfoil, thermal cells
Dietyostenum, aerasin as social hormone 1000 m.	1957 Ann in 26.3
sting, war, archery, accuracy, range and lethality of sling	but the
Slip planes of the fourther tale and the slip planes of the page 1973 Oct p 34-	1901 Mar p 124-13
slip planes, crystal structure, dislocations, edge dislocation, soap bubble	2 Ond fight, fight of soaring hirds 1962 Apr n 120 140
1955 July p 80-87 [26 Slippery water, Toms effect: soluble polymer added to liquid	albatross, evolution, animal behavior, bird flight sexual behavior
don view infection and a state polymer added to figure 1970 Oct p. (natural history 1970 Nov n 84-93 11201
sion virus injection, multiple scierosis, invelin sheath, politomy class	bird flight, gliding birds, vultures, thermal cells, lift phenomena
demyennating factor, latent viruses 1970 fully p. 40	sociability, scientists, social psychology, 'Terman sample', scientists and
degenerative diseases, immune system, virus disease, kuru, scranie,	'Other people' compared on house of the
cancer virus, herpes virus 1974 Feb p 32-40 [128	
slums, urban renewal, cities, housing, relocation, eminent domain, urban planning, US experience with Federal subsidy of urban renewal	1955 Jan n 25-29 1437
1965 Sent n 1911-70	social amochae, amochae, shime mold, Dictyostehum acrasin, role of
sturries, pipelines, fluid dynamics, oil, gas, history and technology of	decrasin in cell aggregation 1949 June p 44-47 amoebae, cell differentiation, slime mold, Dictyostelium cell
pipelines 1967 Jan. p. 62-7	4 aggregation, acrasin 1959 Dec. p. 152-162
smanpos, eradicated? 1977 Mar n 6	acrasin, amoebae, adrenalin, slime mold, Dictyostehum, cyclic AMP
smallpox eradication, medical history, vaccination, W H O campaign	1969 June p 78-91
smallpox immunization, cowpox, medical history, variolation,	
vaccination, 'vaccination' before Jenner 1976 Jan p. 112-11	Ashanti, Tallensi, kinship, extended family, social structure, social psychology, primitive Tallensian and Ashantian kinship
smectie, liquid crystals, soap bubbles, cholesteric, nematic	1959 June p 146-158
1964 Aug p 76-89	social psychology, Zulu peoples, war, short-lived empire of Zulu chief
smell, see olfaction smelting, steel production, blast furnace, from ore, furnace smelting under	Shaka 1960 Apr p 157-168
pressure 1948 May p 54-57	
smog, air pollution, atmospheric inversion 1952 May p 15-19	Kung bushmen, sexual behavior, origin of society 1960 Sept p 76-87 [602]
air pollution, 'blue haze', atmospheric inversion, particulates, ozone,	Pygmies, Congo, Bambuti, symbyotic relationship of jungle Pygmies
peroxides, photochemistry 1955 May p 62-72	and pastoral-village peoples 1963 Jan p 28-37 [615]
bronchitis, air pollution, emphysema, public health, environmental health, US cities, smog and public health 1961 Oct p 49-57 [612]	social behavior, chicken, pecking order, sexuality and dominance
air pollution, automobile emissions, ozone, urban transport, air	1956 Feb p 42-46 [471] comparative psychology, animal behavior, praine dogs, territorial
pollution control in Los Angeles 1964 Jan p 24-31 [618]	behavior, innate behavior, learning behavior, field observation of
air pollution, cities, water supply, sewage disposal, water pollution,	prairie dog communities 1959 Oct p 128–140
taxation, Los Angeles, New York, metabolism of cities	Portuguese man-of-war, nematocysts, coelenterate colonies 1960 Mar p 158-168
1965 Sept p 178-190 cloud seeding, water cycle, air pollution, water drop, ice crystals, fog,	baboons, human evolution, comparative psychology, social
inversion layer 1968 Dec p 74-82 [876]	anthropology. Kung bushmen, sexual behavior, origin of society
Los Angeles smarting 1953 Jan p 32	1960 Sept p 76-8/[602]
smoke tunnel, ailerons, aircraft design, aerodynamics, airfoil, boundary	social evolution, human evolution, cities, urban revolution, 1500 B C origin of cities 1960 Sept p 153-168 [606]
layer, low-speed flight 1956 Apr p 46-51 smoked ham, hickory, fences, axe-handles, hickory nuts, economic	ethology, gulls, comparative psychology, animal behavior, evolution,
botany, forest, natural history, shagbark hickory 1948 Sept p 40-43	reconstructing guil family tree from behavior of species
smooth muscle, structure elucidated 1965 Sept p 86	1960 Dec p 118-130 [430]
smut, antibiotics, plant disease, rot, blight, wilt disease, mold, mildew 1955 June p 82-91	baboons, comparative psychology, sexual behavior, baboon troops in their natural environment 1961 June p 62-71 [614]
snail, food, Helix pomatia, natural history 1957 Aug p 113-118	namate behavior, chimpanzee, tool-using, comparative psychology,
escape response, marine invertebrates, starfish, limpets, scallop, prey-	observation of chimpanzees in the wild 1962 May p 128-138 [403]
predator relationship, chemical signals 1972 July p 92-100 [1254]	pheromones, insect physiology, sexual behavior, queen substance,
snake, animal behavior, locomotion, herpetology, lateral, rectilinear,	muskone, ants, Gypsy moths, mice 1963 May p 100-114 [137] amoebae, slime mold, Dictyostelium, chemotaxis communication,
concertina and sidewinding modes of progression 1970 June p 82-96 [1180]	spatial orientation 1963 Aug p 84–93 [104]
heat sensors, infrared receptors, sensory organs, infrared laser,	aggression, rats, animal behavior, territorial behavior, natural history, Rattus rattus. Rattus norvegicus 1967 Jan p 78-85
herpetology 1973 May p 94–100 [1272]	Rattus rattus, Rattus norvegicus 1967 Jan p 18-03 rhesus monkeys, urban monkeys, learning, urban and forest monkeys
snoring, a cure 1951 June p 35 snow, avalanche, loose-snow avalanche, slab avalanche	in India 1969 July p 108-115 [525]
1954 Jan p 26-31	social class, ghetto, racial discrimination, unemployment, urban nots
ice, water, frost, supercooling, condensation nuclei, ice worms, how	public opinion, American Negro, 'riffraff theory' versus 'blocked- opportunity' theory 1968 Aug p 15-21 [638]
water freezes 1959 Feb p 114-122	opportunity' theory 1968 Aug p 13-21 [036] social controls, Kuanyama Ambo, anthropology, murder, monarchy
avalanche control, mountains, hoar frost, types, causes and prevention of shdes 1966 Feb p 92-101	1950 Oct p 32-33
snow crystals, water, ice, hydrogen-ion migration, hydrogen bonds,	social deprivation, comparative psychology, rhesus monkeys, maternal deprivation, peer group, experiments in social deprivation
hydration, physical and chemical properties 1930 Apr p /0-89	1962 Nov p 136~146 [473]
crystal growth, condensation nuclei, natural and artificial condensation 1961 Jan p 120-131	black power. American Negro, racial discrimination, group identity,
crystallography ice, crystal structure, water molecules, migrating	economic nower ethnic groups, slavery 1967 Apr p 21-27 [033]
1900 Dec D 110-120 1901	educational performance, teacher expectations, experiment in self- fulfilling prophecy for disadvantaged children
hexagonal habit, cloud physics, bullet clusters, isuzum crystais,	1908 Apr p 19-23 13141
variations on a tilente 1952 Feb p 58~59	social discrimination, public opinion, American soldiers, attitude survey, sociology, studies of attitudes and morale of U S troops during
a 111 amendal atriothire dislocations, edge dislocation, one plants	World War II, including experiments in racial integration of multary
1964 Aug p 76-85	1949 May b 11-13
liquid crystals, cholesteric, smeetic, nematic 1964 Aug p 76-85 area-minimizing principle, measure theory, mathematical model, mathematical surfaces, surface geometry 1976 July p 82-93	discrimination, group behavior, child development, 'in vs out' group discrimination 1970 Nov p 96-102 [530]
illatifetifation automos, a constant	

social evolution, blood typing, Judaism, racial discrimination, religious persecution, genetic drift, population genetics, Jewish community of Rome 1957 Mar. p. 118–128 social behavior, human evolution, cities, urban revolution, 1500 B.C. origin of cities 1960 Sept. p. 153–168 [606]	social structure, Ashanti, Tallensi, social anthropology, kinship, extended family, social psychology, primitive Tallensian and Ashantian kinship 1959 June p. 146-158 social surveys, achievement, motivation, aspiration, psychological testing, self-anchoring scale 1963 Feb. p. 41-45
social geography, cities, racial discrimination, American Negro, segregation, metropolitan segregation 1957 Oct. p. 33-41 social indicators, child welfare, state of the child, New York City	social values, science, human value, introduction to an issue reviewing advance of science 1900-1950 1950 Sept. p. 20-23 Mormons, Zunis, Spanish-Americans, agricultural system, Navaho,
1976 July p. 65 social insect, insect behavior, army ant, ants, comparative psychology, reproduction, feedback, pheromones, trophallaxis, natural history,	comparative study of cultures in New Mexico 1956 July p. 25–31 socioeconomic background, scientists, psychological testing, social psychology, psychological study of 64 eminent scientists
philosophy of science, anthropomorphism 1948 June p. 16–23 insect behavior, animal communication, bee dances, directional orientation, 'language of the bees' 1948 Aug. p. 18–21 [21]	sociology, public opinion, American soldiers, attitude survey, social discrimination, studies of attitudes and morale of U.S. troops during
termite, cell analogy, behavioral adaptation, insect behavior 1953 May p. 74-78 honeybee, natural history 1955 Aug. p. 52-60	World War II, including experiments in racial integration of military units 1949 May p. 11-15 cultural evolution, anthropology, multilinear human culture changes
insect behavior, bee dances, evolution, evolutionary 'dialects' of 'language of the bees' 1962 Aug. p. 78-86 insect behavior, ants, army ant, retrospective summary of work of T.C.	public opinion, American Negro, U.S. whites, desegregation, attitude survey, racial segregation, longitudinal attitude study
Schneirla 1972 Nov. p. 70-79 [550] ants, parasitism, pheromones, insect behavior, ant slavery 1975 June p. 32-36 [1323]	Nobel prizes, education, university education, scientific careers, sociology of the Nobel prizes 1967 Nov. p. 25–33
ants, insect behavior, pheromones, weaver ants 1977 Dec. p. 146-154 [1373] 'social physics', social sciences, physical sciences, statistics, correlating	poverty, Mexico City, buying habits, culture of poverty 1969 Oct. p. 114-124 [651] Cannabis sativa, marijuana, drug abuse, consciousness, pharmacology
social statistics and physical law 1948 May p. 20-23 social pressure, conformity, perception 1955 Nov. p. 31-35 [450]	1969 Dec. p. 17-25 [524] communication, mass-communication media, message systems,
social psychology, competition, cooperation 1950 Apr. p. 54-56 communication, leadership, 'work patterns profiles', people in groups 1951 Feb. p. 26-28	television violence, cultural patterns, mass communications as social environment 1972 Sept. p. 152-160 [679] sociology of science, N.S.F., peer review, research funding, university
scientists, psychological testing, socioeconomic background, psychological study of 64 eminent scientists 1952 Nov. p. 21-25 scientists, sociability, "Terman sample", scientists and 'other people'	science, science policy 1977 Oct. p. 34-41 [698] sod hut, building construction, architecture, primitive architecture, climate, igloo, teepee, yurt, tent, adobe house, hogan, stilt house
compared on basis of 'Terman' sample of intellectually gifted persons under three-decade longitudinal study 1955 Jan. p. 25-29 [437]	1960 Dec. p. 134–144 sodium-cooled reactor, fission reactor, nuclear power, breeder reactor, boiling-water reactor, homogeneous reactor, fast neutron reactor 1954 Dec. p. 33–39
group behavior, interpersonal relationships, conference 1955 Mar. p. 31-35 aggression, group behavior, pecking order, experiments in group	sodium ion potential, nerve impulse, action potential, refractory period, nodes of Ranvier, nerve membrane 1952 Nov. p. 55-65 [20]
behavior 1956 Nov. p. 54-58 [154] interpersonal relationships, self-disclosure, idiosyncracy in self-disclosure 1958 May p. 77-82	electric fishes, electroplaques, neurophysiology, synapse, acetylcholine, animal behavior, nerve impulse, bioluminescence 1960 Oct. p. 115-124
adolescence, conformity, interpersonal relationships, U.S. teenage attitudes 1958 June p. 25-29 Ashanti, Tallensi, social anthropology, kinship, extended family, social	sodium pump, giant axon, squid, nerve impulse, nerve cells, 'voltage clamp' technique 1958 Dec. p. 83–90 kidney tubule, membrane potential, active transport, cell membrane,
structure, primitive Tallensian and Ashantian kinship 1959 June p. 146–158 Zulu peoples, war, social anthropology, short-lived empire of Zulu	biological pumps 1962 Aug. p. 100–108 SOFAR: sound fixing and ranging SOFAR, underwater communication 1952 May p. 38
chief Shaka 1960 Apr. p. 157–168 group behavior, conformity, human subjects, group pressure, experiments in susceptibility to group pressure 1961 Dec. p. 45–51	software, computer technology, U.S.S.R., Comecon, integrated circuits 1970 Oct. p. 102-108 soil, moon surface, robot lander, Surveyor spacecraft, surface sampler
fallout shelters, civil defense, arms race, counterforce strategy, social impact of fallout shelters 1962 May p. 46-51 [637] human behavior, cognitive dissonance, experiments in preperception	soil conditioners, humus, polyacrylates, polyvinylites, cellulose, tilth 1953 Aug. p. 36–38
1962 Oct. p. 93–102 [472] education, poverty, group behavior, rural poverty, community action, emotional illness, study of community regeneration	soil erosion, rain drop, elutriation, sheet erosion, micromechanics of soil erosion 1948 Nov. p. 40-45 soil structure, chernozems, podzols, latozols, tundra, alluvial soils,
intelligence, race, whites, IQ, heredity, American Negro, heredity, population genetics, science policy, twins, environment, racial	agronomy, ecology of soil, the soils of the world and their management 1950 July p. 30–39 irrigation, agricultural technology, poverty, economic development
discrimination 1970 Oct. p. 19–29 [1199] aspirations of Rhodesian youth 1957 Jan. p. 60 leadership and social aloofness 1957 Oct. p. 62	afforestation, Mediterranean Project, United Nations 1960 July p. 86-103 human population, food production, fertilizers, pollution, irrigation,
social sciences, 'social physics', physical sciences, statistics, correlating social statistics and physical law 1948 May p. 20–23 economics, mathematical model, decision theory, mathematics in	food 1970 Sept. p. 160–170 [1196] sand dune classification, dust storms, haboob 1976 Oct. p. 108-114
economics and other social sciences 1964 Sept. p. 168-182 National Science Foundation 1961 Jan. p. 78 U.S. Government 1968 Oct. p. 58	soil minerals, plant nutrition, plant roots, root pressure, transport mechanisms 1973 May p. 48–58 [1271] soil molds, fungi, carnivorous plants, nematodes, carnivorous fungi
social status, public opinion, voters' attitudes, voting behavior, correlation analysis, ethnic groups, income, family, 'votes in the making' 1950 Nov. p. 11-13	1958 July p. 67-72 [1094] soil pollution, DDT, herbicide, gamma radiation, X-ray, soil ecology
primate behavior, monkey, Japanese macaques, primate societies, protocultural behavior 1976 Oct. p. 96–106 [1345]	soil reclamation, dust storms, drought, dry-land farming, agricultural technology, mulch, shelter belts, U.S. High Plains 1948 1948 Aug. p. 7–11

soil structure, chernozems, podzols, latozols, tundra, alluvial soils,	
agronomy, ecology of soil, soil erosion, the soils of the world and	Sun, solar cclipse, ionosphere, chromosphere, ultraviolet radiation,
their management 1950 July p. 30–39	Earth-Sun chromosphere-ionosphere interaction
energy cycle, nutrogen fertilizer, nutrient cycle, food and agraphing	1962 Feb. n. 50.50
1000 than 1976 Sunt n 71 96	flare stars, radio astronomy, radio star, Jodrell Bank radio telescope,
surger reaction, amocoae, cell, cytology, high pressure, effect of high	definitive evidence of radiowaves from stars 1964 Aug. p. 13-19
pressure on centuar activity 1958 Oct p. 3613	lunar luminescence, moon, solar radiation, Kepler crater, meteontes, impact of solar protons? 1965 May p. 28-37
amocoac, phagocytosis, cell motility, cytoplasmic streaming front	impact of solar protons? 1965 May p 28-37 cosmic radiation, interplanetary fields, interplanetary particles,
contraction theory of amocboid motion 1962 Feb p 112-122 [182]	magnetosphere, solar wind, aurora, Van Allen belts, solar system
solar astronomy, airborne solar photography 1957 Sept p 107	1975 Sept p 160-173
solar atmosphere, solar corona, zodiacal light, Van Allen belts, solar	solar gravitation, atmospheric tides, lunar gravitation, 1954 May p. 36-39
prominences, ionospheric storms, Earth in the Sun's atmosphere	solar magnetism, magnetic field, Zeeman effect, sunsoots, manning
1959 Oct p 64-71 magnetic field, solar magnetism, Sun cycle, photosphere,	changes in solar magnetic field 1960 Feb p 52-62
chromosphere, 11-year solar cycle explained 1966 Nov. p 54-62	magnetic field, Sun cycle, photosphere, chromosphere, solar
Sun, sunspots, rotation, magnetic field, eddies, solar atmospheric	atmosphere, 11-year solar cycle explained 1966 Nov p 54-62
circulation 1968 Jap n 100-113	neutrino, solar corona, solar energy, Sun, sunspots 1975 Sept p 42-30 comes and goes 1955 May p 56
solar battery, solid state physics, semiconductor, photoelectric effect,	comes and goes 1955 May p 56 magnetic pole reserval 1959 Dec p 82
energy transformation 1955 Dec. p. 102-110	solar navigation, animal navigation, bee, crustacea 1954 Oct p 74-78
solar cells, energy transformation, energy demand, fuel-conversion	solar neutrino detector, cosmic radiation, solar radiation, neutrino,
efficiency, power, prime movers, steam turbines,	thermonuclear reaction, neutrino detection experiment and
magnetohydrodynamics, gas turbine, internal combustion engine,	predictions 1969 July p 28-37
fuel cell, power, nuclear power, comparative efficiencies of energy transformation pathways in industrial civilization	solar neutrinos, neutrino, cosmic radiation neutrinos, intermediate vector
1971 Sept p 148–160 [668]	boson, scintillation counter boson, detection of natural neutrinos
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technology, silicon-crystal structure 1976 Oct p 34-43	missing 1972 June p 33 missing neutrinos explained 1975 Aug. p 47
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bomb, proton-proton interaction, helium reaction, ultrahigh	belts, geomagnetism, radiation belts, space exploration, mapping of
temperatures 1954 Sept p 144-154	radiation belts by Explorer satellites 1959 Mar p 39-47 [248]
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solar and terrestrial atmospheres 1958 Aug p 34-41 zodiacal light, Van Allen belts, solar prominences, solar atmosphere,	accelerator theory 1960 June p 64-71 solar physics, carbon 14 abundance, climate, ice ages, Maunder
ionospheric storms, Earth in the Sun's atmosphere	minimum, sunspots, dendrochronology 1977 May p 80-92 [925]
1959 Oct p 64-71	solar prominences, heat, plasma, magnetohydrodynamics, shock tube,
aurora borealis, solar wind, Earth magnetic field, Van Allen belts,	very high temperatures 1954 Sept p 132–142
comet tails, magnetic storms 1964 Apr p 66-76	solar corona, solar flares, ionosphere, atmosphere, coupling of solar
chromosphere, corona, eclipse phenomena, photosphere, Sun	and terrestrial atmospheres 1958 Aug p 34-41
1973 Oct p 68–79	solar corona, zodiacal light, Van Allen belts, solar atmosphere,
neutrino, solar energy, solar magnetism, Sun, sunspots 1975 Sept p 42–50	ionospheric storms, Earth in the Sun's atmosphere 1959 Oct p 64-71
solar wind, space exploration, waves in solar wind 1977 Mar p 36-43	solar radiation, climate, volcanoes, dust, world climate and volcanic
solar eclipse, orbital motion, Earth, moon 1954 Feb p 36-40	activity 1952 Apr p /4-80 [843]
Sun, ionosphere, solar flares, chromosphere, ultraviolet radiation,	climatic change, glaciation, solar evolution and terrestrial climate
Earth-Sun chromosphere-ionosphere interaction	1958 June p 85-92 [655]
1962 Feb p 50~59	comet, Halley's comet, physics of comet tails 1958 Oct p 44-30
solar energy, light-to-heat conversion, photovoltaic conversion,	Antarctica, climatology, atmospheric circulation, albedo, Antarctica in Earth's heat budget 1962 Sept p 84-94 [859]
photosynthesis, limitations and prospects of solar power 1950 Aug p 16-21	artificial satellite, geomagnetism, Lorentz force, magnetosphere, Van
energy resources, residential heating, windows, low-potential energy,	Allen belts radiation belts aurora physics of Van Allen belts
hot water, Sun can supply most of the 30 percent of fuel energy	1963 May p 84-30
consumed in domestic heating 1951 Feb p 60-65	atmospheric circulation, meteorology, weather, upper atmosphere, halloon and rocket observations 1964 Mar p 62-74
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atmosphere 1955 Sept p 114-124	impact of solar protons? 1965 May p 28-37
light absorption, pigments, energy conversion, solar collectors 1956 June p 97–106	aurera horealis geomagnetism, ionosphere, magnetosphere, solar wind,
ecology, energy cycle, biomass, food chain, element abundance,	physics of the aurora 1965 Dec p 54-02
autotrophs heterotrophs, the ecosphere 1958 Apr p 83-92	convection currents, plants, thermoregulation, thermal radiation,
energy consumption, energy resources, fission fuels, power, fossil fuel,	transpiration, energy transfer, heat transfer in plant leaves 1965 Dec p 76-84 [1029]
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1971 Sept p 60–70 [663]	atmosphere, laboratory simulation, atomic energy levels
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1973 Sept. p. 42-30	plasma, 1000 sept. p. 130-202
captured by chlorella 1951 Dec p 38	plasma, ionosphere, Earth magnetic held, geomagnetism, bartain clouds, magnetosphere, electric field, artificial plasma clouds from
the long view	1968 Nov p 80-92
photovoltaic cell 1956 Jan p 48	reduction, neutrino, solar neutrino detector, thermonuclear
status of solar energy units status of solar energy units solar flares, Sun, ionospheric storms, aurora, sunspots, geomagnetic solar flares, Sun, ionospheric storms, aurora, sunspots, geomagnetic 1951 Dec p 17–21	reaction, neutrino detection experiment and predictions 1969 July p. 28-37
solar flares, Sun, ionospheric storms, datora, out of 1951 Dec p 17–21	biosphere, albedo, atmospheric circulation, climate,
storms solar corona, solar prominences, ionosphere, atmosphere, coupling of 1958 Aug p 34-41	ocean circulation, terrestrial radiation, carbon dio dde willdow,
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photosynthesis, biosphere, agricultural ecosystem, climax	ecosystem,	Galileo, Jupiter, Jovian satellites, Europa, Callisto,	Ganymede, Io
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radio waves, status and expectations of the new astron	Sept p 34-41	exploration, stellar evolution	1974 Mar p 50-65
solar rotation, aurora, magnetic storms, sunspots, cone of a		solar system evolution, meteorites, meteoritic dust, oc	ean sediments,
solar wind, corpuscular streams, cycles in 'solar wind'		'cosmic spherules' in ocean sediments	960 Feb p 123-132
1955	Feb p 40-45	cosmic radiation, cosmogenic helium, meteorite rad	dioactivity,
sunspots, Sun structure, solar spectrum 1975 A	pr p 106-114	spallation of meteorites	1973 July p 64–73
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	951 June p 31	inner planets as key to solar-system history 197	7 Jan p 84-99 [351]
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aurora and airglow 1955 Se	ept p 140–150	collisions, primordial dust cloud	1975 Jan p 24–33 1975 Mar p 49
solar still, distillation, water, desalination, ion exchange, al	Mar p 37–45	solar variations, Sun as variable star solar wind, aurora, magnetic storms, sunspots, cone o	
technologies 1957 solar system, Sun, cosmology, dust cloud hypothesis, gravi		rotation, corpuscular streams, cycles in 'solar wi	nd'
pressure, gravitational collapse, thermonuclear reaction	n, genesis of		1955 Feb p 40-45
solar system 1948	May p 35-45	climate, weather, ionosphere, meteorology, corona	
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motion, cosmology, introduction to single topic issue	Sept p 72-81	atmosphere magnetic field-solar wind interactio	Sept p 74-83 [858]
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system 1957 Apr	p 80-94 [102]	comet tails, magnetic storms	1964 Apr p 66-76
Neptune, orbital motion, Pluto, Pluto as escaped Neptu	nian satellite	artificial satellite, geomagnetism, magnetosphere, a	
1959 Apr	p 86–100 [295]	magnetometer, orbital motion	1965 Mar p 58-65
radio telescope, radar astronomy, radio astronomy, stee	able 600 ft O Jan p 45–51	aurora borealis, geomagnetism, solar radiation, ion magnetosphere, physics of the aurora	1965 Dec p 54-62
telescope 196 interferometry, moon, planets, ionosphere, radar astron		interplanetary space, Mars, Mariner 4, magnetospl	
technology and promise of radar astronomy 1960	Aug p 50–59	micrometeorites, trapped radiation, atmosphere	, cosmic radiation,
meteorites, relative isotope abundance, age of solar syste	em	space exploration	1966 May p 62-72
	171–182 [253]	Apollo samples, carbon chemistry, moon, cosmolo	gy 1972 Oct p 80-90
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	1 Apr p 64-72	magnetosphere, solar flares, aurora, Van Allen b	
Jupiter, Venus, planets, radio astronomy, measuring pla	netary surface		975 Sept p 160-173
	1 May p 58-65	solar corona, space exploration, waves in solar win	
chondrites, chondrule, primordial dust cloud, shock wa	ves, genesis or 64–82	to be made visible in cloud of barium ions	1977 Mar p 36-43 1962 Apr p 77
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Copernicus, astronomy, Copernicus, length of calend		solid stars, gravitational collapse, neutron stars, pulsa	ar, stellar evolution,
190	66 Oct p 88-98	white dwarfs, ultradense matter	1971 Feb p 24-31
Martian topography, Mariner 9 results, Martian atmos		solid-state electronics, computer, automatic control,	
space exploration, polar cap, 'braided' channels, dun photomosaic, volcanoes on Mars 19	73 Jan p 48–69	conversion, digital computer, analogue compute machine	952 Sept p 116–130
Copernicus, planetary motion models, Tycho Brahe, sc	ence history,	crystal structure, X-ray crystallography, metals, ser	miconductor.
Tycho's notes in de Revolutionibus 1973	3 Dec p 86-101	nonmetals, materials technology, amorphous sol	ıd, electrical
comet origins, cometary structure, exotic molecules, pri		conductivity	1967 Sept p 80-89
cloud, Comet Kohoutek 19' carbonaceous chondrates, chondrates, meteorates, primo	74 Feb p 48~57	carrier-wave generator, communication technology diode laser, laser, heterostructure lasers, light-en	, crystal structure,
	75 Feb p 30-38	semiconductor	1971 July p 32–40
planets, space exploration, Sun, introduction to single		telephone, electronic telephone, integrated circuits	, telephone based on
the solar system	5 Sept p 22-31	integrated circuits 1978	Mar p 58-64 [3002]
Mercury, planets craters, Manner 10 mission 197 planets, Earth, Venus, cratering, Venutian atmosphere	15 Sept p 58-68	tunnel diode	1959 Sept p 106
	75 Sept p 70-78	solid-state lasers, Raman laser effect, gas laser, diode technology in rapid development 196	junction laser, laser 3 July p 34-45 [294]
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lunar evolution, lunar rocks, moon, Apollo missions		diode	967 May n 108-122
dust storms Mars, terrestrial planets, cratering, tecton	5 Sept p 92-102	solid state physics, transistor, vacuum tube, electronic	cs, germanium,
mountain formation, erosion, hydrology 1975	Sept p 106-117	diode, triode, dawn of solid-state electronics crystal structure, X-ray diffraction, ionic bonds, co	1948 Sept p 52–55
Great Red Spot, liquid planets, Jovian moons, atmosp	heric circulation,	metallic bonds, molecular bonds, energy levels, t	the nature of solide
Jupiter 1975	Sept p 118-126	1953	Dec n 39_40 (240)
asteroids, meteorids, moons, planetisimals 1975	Sept p 130-140 Sept p 142-159	solar battery, semiconductor, photoelectric effect,	energy
cosmic radiation, interplanetary fields, interplanetary	ochr h 147-173	transformation	955 Dec p 102-110
magnetosphere, solar flares, solar wind, aurora, Var	particles.	crystal structure, neutron, radiation, nuclear fiere	afforts f
	Allen belts	on solids	n, effects of radiation
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particle detector, particle physics, semiconductor, particle accelerator,	
remediation particle-deficient 1967 (), i a 20 op 120	Control Companies Companies Companies
carbon, polyethylene, spherulites, plastics, crystallography	4) assisted imaging, imaging internal organs by ultrasound
1964 Nov 50 c	1978 May n 08-117 (1380)
Ciccurc field, Gunn effect, microwate emission, negative residence	songoirus, bird song, communication, syrinx, mechanism of sound
electronics, gallium arsenide, solid state microwave generation	production 1969 Nov p 126~139 [1162]
1966 Aug n 22-3	sonic boom, supersonic flight, shock waves, noise pollution, supersonic
argon, crystal structure, cryogenics, noble gases, solid noble gases	1902 Jan 19 3004)
1966 Oct n 64-7	deronautics, supersonic flight, commercial aircraft, aircraft design,
Crystal Affecture, fichum, zero-point motion, auantum solid solid	treating tree into the party and economics of supersome transport
netium, physical and theoretical properties 1967 Aug of 8 to	5 'sound barrier', aviation, rocket engine 1964 June p 25-35 1953 Oct p 36-41
materials technology, crystal defects, epitaxial growth, surface	sound diffraction, architectual acoustics, sound waves, auditonums, wave
chemistry, precipitation in solids, 'doping', chemical properties of	acoustics, sound interference, acoustic reverberation, effective
materials 1967 Sept. p. 210_220	management of sound in public buildings and dwellings
neat, diffusion, thermal waves, second sound, ervogenics, wave	1963 Nov p 78-92
propagation, phonon, behum, thermal wates in solid behum	sound energy, heat conduction engagines phonon thermoelectricity
1970 May p 92-101	quantum mechanics of heat conduction 1962 Dec p 92-104 [288]
antimatter, crystal structure, gamma radiation, gravitational	sound fixing and ranging, see SOFAR
interaction, positron probes, scintigraph 1975 July p 34-42	sound interference, architectual acoustics, sound waves, auditonums
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quantum fluids, phase transitions 1976 Dec p 56-71	management of sound in public buildings and dwellings
solids, explosions, shock waves, materials technology, phase transitions	1963 Nov p 78-92
1969 May p. 82-91 solitary insects, Australia, behavioral adaptation, ecology, insect	sound reproduction, junction diode amplifiers, amplifiers, transistor,
behavior, sand wasps, Bembix 1975 Dec p 108-115	electronic circuitry, noise 1959 June p 118-129
solitary wasps, insect evolution, predatory wasps, species specificity,	
predator-prey relationship, parasitism, behavioral clues to evolution	engineering of sound systems 1961 Aug p 72-84 sound spectrogram, frog calls 1950 May p 46-47
1963 Apr p 144-154	sound spectrogram, frog calls 1950 May p 46-47 computer technology, Voder, speech recognition 1955 Feb p 92-98
Solutrean culture, Upper Paleolutic hunting peoples, stone tools, tool	voice analysis, acoustic analysis, speech quality of mental patients
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solvated electrons, ammonia, radiolysis, ionization, radiation chemistry,	communication, crying, infant behavior, neonatal disorder, mother
sodium, alkalı metals 1967 Feb p 76-83	child interaction 1974 Mar p 84–90 [558]
alkali-metal anions, alkali-metal cations, cryptands, electron orbitals,	disparaged as identification method 1969 Dec p 54
quantum mechanics 1977 July p 92~105 [368]	sound spectrography, cardiology, heart, heart sounds, electronic analysis
solvation shell, laser, liquid lasers, rare-earth ions, chelate cage,	of heart sounds 1956 May p 120-130
comparison of liquid, gas and solid-state lasers 1967 June p 80-90	sound sibrations, auditory beats, brain, hearing, neurology, auditory
somatic cell nucleus, cell differentiation, nucleus transplantation, clone,	perception 1973 Oct p 94-102 [1282]
genetic engineering, gene complement, frog embryo, gene regulation	sound-wave pressure, light, radiation pressure, photophoresis, analogy
1968 Dec p 24-35 [1128] somatic cells, cancer, tissue culture, drug research, clone, technique and	and distinction, light- and sound-wave pressure 1957 June p 99-108
uses of tissue culture 1956 Oct p 50-55	sound waves, pitrasonics, biomegacycle waves, acoustic waves at optical
clone, HeLa cancer cells, cell culture, tissue culture, single human cells	wavelength 1963 June p 60-08
1957 Aug p 91-100 [33]	architectual acoustics, auditoriums, wave acoustics, sound interference,
aging, fibroblasts, mitosis, cell culture, cell, DNA replication,	sound diffraction, acoustic reverberation, effective management of
experiments in aging 1968 Mar p 32-37 [1103]	sound in public buildings and dwellings 1963 Nov p 10-32
cell hybridization, gene mapping, hybrid cells, mouse-human hybrid	feedback, vortex, edge tone, aerodynamic whistles, hole tone, whistles, flutes, organs and rocket engines 1970 Jan p 40-46
cells 1974 July p 36-44 [1300]	flutes, organs and rocket engines 1970 Jan p 40-40
cancer, SV40 virus, gene transformation, chromosome mapping, tissue	communication technology, crystal surface waves, electronic equipment, Rayleigh waves, signal processing, ultrasonic waves
culture, hybrid cells, genetics of human cancer 1978 Feb p 117-125 [1381]	1972 Oct p 50-68
sonar, ocean floor, seismology, sedimentary cores, Albatross voyage,	acquette holography laser interference holography, acoustic imaging,
isotope dating, Swedish deep sea expedition 1950 Aug p 42-48	nondestructive testing, medical diagnosis 1909 Oct p 30
bat sonar, animal navigation, ultrasonic signal, bat navigation	South America, New World archeology, stone tools, early man in New
demonstrated in laboratory 1950 Aug p 52~55	World, 12,000 B C 1967 Nov p 44-50
'false bottom', marine biology, plankton, shrimp, heteropod, deep-sea	Southern pine, resource management, gene manipulation, grafting
scattering layer, deep-sea 'layer of life' 1951 Aug p 24-28	techniques, forestry, tree farming, seed orchard concept 1971 Nov p 94-103
ocean floor, topography, Aleutian Trench, seamounts, fathogram,	Southern sky, Clouds of Magellan, galactic center, nebulae, globular
echo-sounding, the Pacific floor 1952 Apr p 19–33	abustos stars. Eta Canna, astronomical riches of the southern sky
guacharos, bird navigation, 'oil birds' 1954 Mar p 78-83 ultrasonics, interferometry, emulsification nondestructive testing	1952 July p 40-31
1954 May p 54-63	Harvard quits Boyden 1953 Apr p 44
blue whale, krill, food chain, whaling, natural history of the largest	Boyden station saved 1955 Aug p 48
1956 Dec p 46-50	Soviet Union, see USSR soybean products, legumes, nitrogen fixation, agronomy plant protein
hathymetry, grayimetry, ocean floor, continental shelf, sedimentary	soybean products, regumes, introgen resulted, agronomy plant proton-
agent Lamont Geophysical Observatory 1906 Dec p 85-94	space age tribute to Robert H. Goddard 1960 Sept. p. 106
auditory discrimination, bats, bat sonar, echo-sounding, sensory	space curvature, cosmology, universe evolution, 'big bang' theory
perception, supersome sonar of bats 1958 July p 40-49 [1121] echo-sounding, ocean floor, plankton, deep-sea scattering layer, photocecho-sounding, ocean floor, plankton, deep-sea scattering layer, photocecho-sounding, ocean floor, plankton, deep-sea scattering and deep-	universe according to Gamow 1956 Sept p 136-134
states hottom!	cofinity relativity theory, universe as finite or infinite
Zone, Taise bottom moths, auditory perception,	space exploration, Earth satellite, orbital motion 1976 Aug p 90-100 1955 Dec p 29-33
	space exploration, Earth satellite, Orbital motion, satellite, Sputnik, tracking station, artificial satellite, orbital motion, satellite, Sputnik, tracking station,
	East conficial Farth satellite 1937 Dec 0 37-43
arms control, antisubmarine warfare, missile submarines, SALT,	and entering solar narticles, cosmic radiation, telemetry, van
mutual assured destruction, SLBM, acoustic detection 1972 July p 14-25 [345]	Allen belts, geomagnetism, radiation belts, mapping of radiation
Director Francisco	belts by Explorer satellites 1959 Mar p 39-47 [248]

artificial satellite, orbital motion, Mercury, re-ent	ry vehicle, ablation.	gravity, stellar evolution, gravitational collapse, thermal pressure,
re-entry corndor, re-entry from space	1961 Jan p 49–57	singularity, gravitational radius, black hole 1967 Nov p 88–98
ion propulsion, plasma jet, jet velocity, cesium-io		spacecraft, interplanetary navigation, orbital motion, rocket,
magnetohydrodynamics, electrical propulsion	1961 Mar p 57-65	communication technology, navigation, technology of space
solar system, astronomical unit. Venus probes, D		navigation 1960 Mar p 64–73
Earth-Sun distance more precisely measured	1961 Apr p 64-72	artificial satellite, Mars, space exploration, Mariner 4, telemetry,
Mariner 2, telemetry, Venus, navigation, orbital r		spacecraft navigation 1966 Mar p 42-52
resolution studies of Venus	1963 July p 70–84	moon surface, lunar geology, cratering, lunar exploration, structure,
lunar exploration, moon, lunar surface, spacecraf		history, origin of moon from nine spacecraft visitations
missions	1966 Jan p 52–67	1967 Mar. p 60–74
artificial satellite, Mars, Mariner 4, telemetry, spa		spacecraft design, lunar exploration, moon, space exploration, lunar
spacecraft	1966 Mar p 42-52	surface, Ranger missions 1966 Jan p 52-67
Mars, computer enhancement, telemetry, televisi		spacecraft navigation, artificial satellite, Mars, space exploration, Mariner
graphics, Mariner IV photographs, Martian to		4, telemetry, spacecraft 1966 Mar p 42–52
grapines, mariner iv photograpus, marian to	1966 Apr p 54-68	interplanetary navigation, Mars, navigational accuracy, Viking
interplanetary space, Mars, Mariner 4, magnetos		missions 1976 June p 58–74
micrometeorites, trapped radiation, atmosphe	re. solar wind, cosmic	Spanish-Americans, social values, Mormons, Zunis, agricultural system,
radiation	1966 May p 62-72	Navaho, comparative study of cultures in New Mexico
moon, lunar surface, telemetry, high-resolution p		1956 July p 25–31
Orbiter space missions	1968 May p 58–78	spare tire, fuel consumption, jettison the 'Fifth wheel'? 1978 Apr p 88
Mars, Venus, atmosphere, atmospheric difference		spark chamber, particle accelerator, cloud chamber, bubble chamber,
Apollo project, lunar evolution, lunar magnetism	magnetometers on	particle tracks 1962 Aug p. 36–43
moon	1971 Aug p 62–73	high-energy physics, storage rings, synchrotron, particle accelerator,
Apollo project, lunar evolution, lunar rocks	1971 Oct p 48-58	colliding beam accelerator 1966 Nov p 107–116 [323]
Martian topography, Mariner 9 results, Martian		spark machining, innovation from Hungary 1950 July p 26
solar system, polar cap, 'braided' channels, du	ne fields, photomosaic.	spatial frequency, contrast perception, visual perception, visual thresholds
volcanoes on Mars	1973 Jan p 48–69	1974 Nov p 106-114 [1308]
astrochemistry, interstellar matter, molecular sp		spatial memory, memory, brain organization, hippocampal system, rats
= notificially, interstellar matter, moreovar op	1973 Mar p 50-69	1977 June p 82–98
chondrites, element formation, planets, solar sys		spatial orientation, bird navigation, animal navigation, bird migration,
evolution	1974 Mar, p 50-65	celestial navigation by birds 1958 Aug p 42-47 [133]
planets, solar system, Sun, introduction to single	topic issue on the	kinesthetic memory, visual perception, neuropsychology, perception of
solar system	1975 Sept p 22-31	the upright 1959 Feb p 50-56 [410]
solar corona, solar wind, waves in solar wind	1977 Mar p 36-43	kinesthetic memory, sensory perception, sensory feedback, plasticity in
extraterrestrial life, Mars, Viking lander experin	nents	sensory-motor systems in man and cats 1965 Nov p 84-94 [494]
	977 Nov p 52–61 [389]	spatial perception, psychology, learning, innate behavior, perceptual
mice aboard Aerobee	1952 May p 38	learning, innate vs acquired space perception 1956 July p 71-80
the notion decried	1952 Dec p 30	special relativity, quantum mechanics, atomic structure, high-energy
Harvard-Smithsonian	1955 July p 52	physics, science, physics 1900-1950 1950 Sept p 28–31
special relativity, twin paradox	1957 July p 68	Pythagorean theorem, time, clock paradox 1963 Feb p 134-144
Sputnik, first man made satellite	1957 Nov p 66	ether drift, luminiferous ether, speed of light, interferometry,
threat of space probes to 'origin of life' study	1958 Aug p 48	Michelson-Morley ether-drift experiment 1964 Nov p 107–114
pollution of space	1958 Dec p 53	Cerenkov radiation, high-energy physics, tachyons, speed of light,
Soviet rocket on orbit around Sun	1959 Feb p 58	hypothetical particles faster than light 1970 Feb p 68–77
24-nation U N committee	1959 Feb p 64	space exploration, twin paradox 1957 July p 68
resume of U S program diet in space	1959 Apr p 62 1959 June p 82	test for constancy of speed of light reduces uncertainty to 001 Earth's orbital velocity 1960 Mar n 84
USSR-USA satellites aloft	1959 Nov p 86	orbital velocity 1960 Mar p 84 positron annihilation confirms constancy of velouty of light
Pioneer V, Tiros, Transit 1-B data	1960 May p 88	
U S -U S S R. competition	1960 July p 79	young Einstein's paradox 1963 May p 77 1975 Aug p 48
Pioneer V fades out	1960 Sept p 108	speciation, population genetics, evolution, E coli, Drosophila, mutation,
US and USSR programs	1960 Oct p 82	sexual recombination, natural selection, genetic basis of evolution
a 'C E.R N' for space	1960 Nov p 90	1950 Jan p 32–41 [6]
USSR orbits dog	1960 Nov p 98	species specificity, antigen-antibody reaction, determination of 'blood
international cooperation	1962 Apr p 74	relationships' 1951 July p. 59–63
US-USSR discuss collaboration	1962 May p 74	Darwin's finches, Galapagos Islands, evolution
review of first five years	1962 Nov p 68	1953 Apr. n. 66–72 [22]
Year of the Quiet Sun	1963 Jan p 60	Lysenkoism, Lamarck, acquired characteristics, genotype, evolution
after Apollo, what?	1967 Apr p 50	phenotype, mutation, ostrich calluses, religion, orthodoxy
U S 1970's program recommendations	1970 May p 54	Darwinism, experiments in acquired characteristics
Jupiter	1971 Oct p 44	1953 Dec p 92–99
space-filling, topology, shape, polygons, polyhed	1954 Jan p 58-64	evolution, guillemot, skua, melanism, ornithology, avian evolution
space flight, Yuri Gagarin on orbit	1934 Jan p 36-64 1961 May p 74	hirds geographical distribution and 1957 May p 124–134
space medicine, acceleration, g-forces, weightless	ness semicircular canals	birds, geographical distribution, ornithology, behavioral adaptation, bird migration, adaptation, provinciality of birds
black-out	1951 Jan n 16-19	
acceleration, human physiology, manned space	e flight, weightlessness.	1957 July p 118–128 camouflage, evolution, melanism, moths, air pollution, population
human centrifuge, g stress	1962 Feb p 60-70	genetics, mutation, genetic variation, evolution observed
space 'mirror', US project West Ford	1961 Oct p 80	1950 Mar at 40, 52 to 42
'Space Rapture', Copernican revolution, English	poetry	animal behavior, gulls, evolution, sexual behavior, innate behavior,
10	77 Juna n. 120 120 (367)	ethology species discrimination, Larus, eye rings
space technology, nuclear propulsion, ion propul rocket propulsion by nuclear reactions		1967 Oct p. 01 102 1109 41
Space-time continuum or institutor in a	1959 May p 46-51	continental unit, replife evolution, radiation, genetic continents
space-time continuum, gravitation wave-particle quantum mechanics, uncertainty principle,	duality, relativity theory.	Condwanarand, Laurasia, mammalian evolution, supercontinued
physics ancertainty principle,		breakup and animal diversification 1969 Mar p 54-64 [877]
• •	1963 Nay p 45-53	P 54-64 [677]

species dispersion, aerial plankton, animal nugration, insect physiology,	
astroattarin pest, entomotogy, wind-borne dispersal of species	Subdivarf stars bluer because necessary to an agrain, stellar evolution,
1963 Dec p 132-1	Licensia ultra-bank vicinia ed diferen
species extinction, fossil record, natural selection, glaciation,	cryogenic pump, mass, vacuum down to 10 mm of mercury
'catastrophism', crises in the history of life 1963 Fcb p 76-92 [86 species isolation, Death Valley, desert pupfish, fish, endangered species	
1971 Nov n 101_110 (123)	correlation of rotational velocity with mass 1963 Feb p 46-53
species specificity, extinction, adaptation, natural selection, evolutionary radiation, ecological niche, 'Is m in here to stay?'	stars 1963 Apr n 60-67
1950 Nov. n. 52. 5	atomic nucleus, fast neutrons, nuclear probe, neutron spectroscopy,
terunzation of flowers, flower, pollinators 1951 June p. 52-5	structure of atomic nucleus 1964 Mar p 79-88 quasars, recession velocity, cosmological distance, red shift, whether
antigen-antibody reaction, speciation, determination of 'blood	quasars are intra- or extra-galactic 1966 Dec p 40-52 [305]
relationships 1951 July p 59-6 agricultural pest, corn borer, insect behavior, corn, adaptation of	materials technology, color, photoelectric effect, laser, transparency,
parasite to host 1958 May p. 87-9.	optical properties of materials 1967 Sept p 238-248 elementary particles, energy levels, atom, nucleus, high energy physics,
insect evolution, predatory wasps, solitary wasps, predator-prev	1968 May p 15-19
relationship, parasitism, behavioral clues to evolution 1963 Apr p 144-15-	Greed and an artist, light, Fourier analysis, diffraction grating
bee dances, insect behavior, directional orientation, evolution,	aging, radiation damage, free radicals, electron-spin resonance
communication by sound, by dancing 1967 Apr p 96-104 [107]	chemical bond, effects of free radicals on living systems
insecticide, balsam-fir factor, insect hormones, insecticide resistance, juvenile hormone, DDT, third-generation pesticides	1970 Aug. p 70–83 [335]
1967 July p 13-17 [1078]	Doppler effect, red shift, quasars, shell hypothesis, radio source, absorption lines clue to quasar structure 1970 Dec p 22-29
evolution, proteins, computer analysis, cytochrome, anuno-acid	airglow, atmospheric ionization, atmospheric light, photochemistry
substitution, phylogeny from amino-acid substitution 1969 July p 86-95 [1148]	1972 Jan p 78-85 Doppler effect, energy levels, gas laser, laser spectroscopy
fruit fly, sexual behavior, releaser stimulus, couriship song, insect	1973 Dec p 69-85
behavior 1970 July p 84-92 spectrograph, speech synthesis, talking computers, vocal tract, Voder	
1972 Feb p 48-58	nucleochronology, radioactive nuclei, stellar evolution, supernovae 1974 Jan p 69-77
spectroheliograph, artificial satellite, ultraviolet radiation, ultraviolet	stellar evolution, supernovae, supernovae observed in other galaxies 1976 Dec p 89-101
astronomy, Sun 1969 June p 92-102 spectrometry, balloon astronomy, Venus, infrared astronomy	electromagnetic spectrum, electron manipulation, electron storage
1965 Jan p 28-37	rings, synchrotron radiation, X-ray lithography, X-ray probe, uses of
extraterrestrial life, infrared astronomy, Venus, atmospheric windows, Mars, Jupiter, moon, history and recent results of infrared	synchrotron radiation 1977 June p 32-41 [365] echelle for diffraction 1953 Apr p 46
astronomy 1965 Aug p 20-29	'match-light' potassium line 1967 Nov p 60
spectrophotometry, color vision, retina, cone cells, pigments, ganglion	speech, language, dialects, American languages, linguistics, changes in
cells, three-color receptor system 1964 Dec p 48-56 [197] spectroscopy, radar, microwaves, molecular bonds, coherent radiation,	American languages, palatalization, changes in American speech
resonance absorption, energy levels, quantum jumps, quantum	1955 Aug p 78-83
electrodynamics, time-keeping, foundation of maser, laser technology 1948 Sept p 16-23	communication, human evolution, language, origin of speech 1960 Sept p 88-96 [603]
meteorites, radio echo, ion cloud 1951 June p 22–28	behavior, facial expression, vocal display, nonverbal communication,
comet, orbital motion, comet tails, composition and origin of comets	facial expression in communication 1965 Oct p 88-94 [627] brain damage, writing, brain hemispheres, cerebral cortex, functional
quantum mechanics, Planck, science history, black body, resonators,	organization of the brain 1970 Mar p 60-78 [320]
Einstein, photoelectric effect, Compton effect, quantum jumps	speech disorders, aphasia, brain damage, Broca's area, language 1972 Apr p 76-83 [1246]
1952 Mar p 47-54 [205] diffraction grating, ruling engine, Strong engine, Rowland engine, the	speech errors, grammar, language organization, linguistics, spoonerisms,
ultimate machine 1952 June p 45–54	syntactic rules 1973 Dec p 110-117 [550]
painting, art restoration, X-ray, microchemistry, science in the art	speech grammaphones, music, sound reproduction, tape recorders, auditory perception, engineering of sound systems
museum 1952 July p 22–27 mass spectroscopy, separation techniques, ion beam	1961 Aug p 72-84
1953 Mar p 68–74	speech perception, attention mechanism, hearing, cochlea, phonetics neuropsychology, hearing two messages at a time
flame chemistry, chemical kinetics, flash tube, ram jet, heat, velocity, luminosity 1953 May p 29-35	1962 Apr p 143-151 (407)
cosmology, red shift, universe expansion, universe, galaxies, recession	auditory illusions, hearing, perception, phonetics, illusions, psychology, illusions as clues to organization of perceptual apparatus
velocity, galactic clusters, observational cosmology 1956 Sept p 170-182 [240]	1970 Dec p 30-33 [531]
blustron, microwaves, molecular rotation, laboratory applications of	speech recognition, computer technology, Voder, sound spectrogram 1955 Feb p 92-98
microwaves 1957 May p 46-53 radio astronomy, hydrogen, absorption line, interstellar matter, 21-	speech synthesis, talking computers, vocal tract, spectrograph, Voder 1972 Feb p 48-58
1937 July p 40-33	spend of light, universal constant, measurement 1955 Aug p 62-67
magnetic resonance, nuclear magnetic resonance, magnetometer, molecular structure, large molecule spectroscopy	ether drift luminiferous ether, special relativity, interferometry,
1930 AUE D 30-00 12-33	Michelson-Morley ether drift experiment 1964 Nov p 107-114 Cerenkov radiation, high energy physics, tachyons, special relativity.
photolysis, photochemistry, chemical reaction, reaction kinetics, free	hypothetical particles faster than light 1970 Feb p 68-77
radicals, color centers, mgn speed chemistry	subatomic distances 1967 Sept p 102 speed of sound, shock waves, shadow photography, Mach cones,
technique and uses of optical pumping	1947 NOV D 14-17
technique and uses of optical pumping galactic yardstick, stellar distances, calcium absorption lines supply new 'yardstick' 1961 Jan p 107-119	spermatozoon, fertilization, sea urchin, acrosome reaction, sexual reproduction, moment of fertilization 1959 July p 124-134
Hen langua.	sobrame

cell anatomy, ovum, virus, science history, cytology, muscle cell, plant	brain hemispheres, cerebral dominance, perception, corpus callosum,
cell, connective tissue cell, introduction to single-topic issue on the	intelligence, language, localization of brain function
living cell 1961 Sept p 50-61 [90]	1967 Aug p 24-29 [508]
spermatozoon bank, cryogenic storage, tissue preservation, frostbite,	split-style art, cultural differences, visual perception, cultural context of
freezing of living cells 1956 June p 105–114	perception, Hudson test 1972 Nov p 82–88 [551]
spermatozoon count, male fertility, birth control, ovulation timing	splitting water, with cerum and sunlight 1953 Mar p 50
1950 May p 16–19	sponge iron, direct-reduction processes, iron ore, iron melting, steel
spermatozoon motility, electrophoresis, sex determination, gene manipulation, sorting out Y-bearing sperm by electrophoresis	sponges, spiders, leeches, spermatozoon transfer, sexual reproduction,
manipulation, sorting out 1-bearing sperm by electrophoresis 1958 Nov p 87–94	bedbugs, unorthodox methods of sperm transfer
spermatozoon nucleus, leukocyte, nucleus, DNA, Miescher, chromatin,	1956 Nov p 121–132
hereditary material, discovery of DNA 1968 June p 78–88 [1109]	spoonerisms, grammar, language organization, linguistics, speech errors,
spermatozoon transfer, spiders, leeches, sponges, sexual reproduction,	syntactic rules 1973 Dec p 110–117 [556]
bedbugs, unorthodox methods of sperm transfer	in action as well as word 1977 Jan p 49
1956 Nov p 121–132	sports, athletics, running records, forecasting by extrapolation 1952 Aug p 52-54
sphere, mathematics, topology, differential topology, torus, everted sphere proof 1966 May p 112–120	Greek civilization, Olympic games, Iliad account 1968 Aug p 78–85
spherulites, carbon, polyethylene, plastics, solid state physics,	footracing, human physiology, athletics, psychology, metabolism,
crystallography 1964 Nov p 80–94	running records, Aesop principle 1976 June p 109–119
sphinx moths, 'cold-blooded' animals, ectothermy, metabolism,	physics of skiing 1956 Jan p 52
heterothermy, insect flight, temperature regulation, Mandura sexta	running dynamics, athletics, foot pressure measured 1967 Mar p 57
warm-up mechanisms 1972 June p 70–77 [1252]	sports medicine, baseball leads fatalities 1951 Oct p 40 acclimatization, Olympics at 7,450 feet altitude 1968 Jan p 51
spider webs, drug action, animal behavior, abnormal behavior 1954 Dec p 80-86	springtail, surface tension, water-strider, backswimmer, whirligig beetle,
arachnid, spiders, evolution, orb web 1960 Apr p 114-124	ecology, aquatic insect, insects of the water surface
spiders, leeches, spermatozoon transfer, sponges, sexual reproduction,	1978 Apr p 134–142 [1387]
bedbugs, unorthodox methods of sperm transfer	spruce, forestry, climax ecosystem, balsam, birch, climax forest of
1956 Nov p 121–132	Northeast US 1948 Nov p 20–23
arachnid, spider webs, evolution, orb web 1960 Apr p 114-124	Sputnik, artificial satellite, orbital motion, satellite, space exploration,
anımal behavior, predator-prey relationship, Arachnida, social spiders 1976 Mar p 100-106	tracking station, first artificial Earth satellite 1957 Dec p 37-43 space exploration, first man-made satellite 1957 Nov p 66
spin, proton spin, high energy physics, 'strong' force, electron scattering,	satellite, Sputnik II results 1957 Dec p 58
dependence of nuclear forces on spin 1966 July p 68–78	satellite, Sputnik I results 1958 Apr p 50
spin-orbit coupling, atomic nucleus, shell model, 'magic numbers', table of	satellite, Sputnik I results 1958 July p 49
isotopes 1951 Mar p 22–26	sputter-ion pump, spectroscopy, vacuum, ultra-high vacuum, oil diffusion
spin-orbit force, atomic nucleus, shell model, optical model, high-energy physics, liquid-drop model, charge exchange, resonance 'particles',	pump, cryogenic pump, mass, vacuum down to 10 12 mm of mercury 1962 Mar p 78–90
proton, neutron, structure of the nucleus 1959 Jan p 75–82	sputtering, chemical accelerators, molecular beam, ion beam, high-energy
spinal cord, maintained in vitro 1949 June p 27	chemistry 1968 Oct p 44–52
spinal reflexes, conditioned reflex, reflex conditioning, "spinal" cats (1 e	squall lines, weather, thunderstorms, wind, jet stream, low-altitude jet
with resected spinal cords) walk' 1950 Nov p 20–22	streams 1961 Aug p 120–131
spunning technology, artificial fibers, natural fibers, textile fibers, yarn 1972 Dec p 46-56	squatters, shantytowns, land use, urban sociology, housing, 'barriadas' of Lima, Peru 1967 Oct p 21-29
spiral arms, Milky Way, nebulae, globular cluster stars, dust clouds,	squid, cephalopods, giant axon, nerve impulse 1951 Apr p 64-69
galactic center, seeing a galaxy from the inside 1950 Feb p 30-39	giant axon, nerve impulse, sodium pump, nerve cells, 'voltage clamp'
stellar populations, galactic structure, stellar classification and	technique 1958 Dec p 83–90
structure of galaxies 1958 Nov p 44–50 [203]	Srinivasa Ramanujan, mathematics history, number theory, obituary by
radio astronomy, galaxy, interstellar hydrogen, mapping the spiral arms of the local Galaxy 1959 Dec p 92–104	G H Hardy 1948 June p 54–57 St. Ninian's Isle, medieval archeology, Scotland, silver artifacts, the
Faraday rotation, galactic magnetism, starlight polarization, spiral	treasure of St. Ninian's 1960 Nov p 154–166
galaxies, stiffening of spiral arms by Milky Way magnetic field	St. Venant body, rheology, flow of matter, Hooke body, Newton body,
1965 June p 4654	how solds flow 1959 Dec p 122–138 [268]
spiral galaxies, Milky Way, interstellar hydrogen, radio astronomy 1955 May p 42-48	stability, control theory, mathematics, cybernetics, computer
Clouds of Magellan, radio astronomy, galactic structure, resolution of	programming, feedback, frequency response, dynamic programming, 'policy' concept 1964 Sept. p. 186-200
structure of nearest galaxies 1956 Apr p 52-58	'policy' concept 1964 Sept p 186-200 stable isotopes, periodic table, 'synthetic' elements, transuranium
galaxy, stellar evolution, universe, stellar populations, distribution of	elements, table of elements, isotopes, first of a series of articles.
'population I' and 'II' stars in local Galaxy 1956 Sept p 92-99 gravitational collapse, galactic evolution, barred galaxy, elliptical	recounting the completion of the table of elements (43 [technetium]
galaxies, evolution from taxonomy 1956 Sept p 100–108	61[promethium], 85[astatine] and 87[francium]) and the first five
galactic evolution, elliptical galaxies, origin and history from shape	transuranic elements (93[neptunium], 94[plutonium], 95[americium], 96[curium] and 97[berkelium]) 1950 Apr. p. 38–47 (242)
1963 Jan p 70-84	96[curium] and 97[berkelium]) 1950 Apr p 38-47 [242] staining techniques, brain circuitry, microscopy, nerve signals, nerve
Faraday rotation, galactic magnetism, starlight polarization, spiral	structure, olfactory system, Golgi stain, Nissl stain
arms, stiffening of spiral arms by Milky Way magnetic field 1965 June p 46-54	1971 July n. 48_60 (1227)
galactic center, Milky Way, quasars, radio source, Sagittarius A,	stairs, architecture, stride, walking 1974 Oct p 82–90
Seylert galaxies 1974 Apr. p. 66-77	standard expectancy method, Hutterites, mental health, psychosty epidemiology 1953 Dec. p. 31, 37 (440)
spiral growth, crystal growth, screw dislocation, loop growth	epidemiology 1953 Dec p 31-37 [440] standard of length, interferometry, mercury 198, interference fringes
spiral structure, interstellar hydrogen, radio astronomy, galaxy, galactic	10.19 Aug n 49 62
nucleus, mapping the local Galaxy 1959 Aug p. 44-51 (260)	standards of measurement, physical constants, measurement, alocate of
Spirit Cave site, Hoabinhian culture, Neolithic archeology, agricultural	ngnt, electron mass, particle charge, least-squares method, Planck's
revolution, Inaliand 1072 Apr p. 24.41 feats	inch and pound redefined
split-brain experiments, cerebral cortex, mammalian brain, corpus callosum, brain hemispheres, monkey, cat, human post operative	Stanford Linear Accelerator Center, electron accelerator linear
subject 1964 Jan p 42–52 [174]	accelerator, klystron tube, two-mile Stanford Linear Accelerator
174] 2C-22 p 4 mic 500	1061 Nov 40 67 6000

ercury 78-90 energy 44–52 et 20-131 las' of 21-29 64-69 mp' 83-90 ry by 54–57 54-166 ody, 8 [268] nming, 86–200 lium], ve cıum], 7 [242] [1227] 82-90 7 [440] 48--53 ty of ick's 8 [337] p 61 rd Linear Accelerator 1961 Nov p 49-57 [322] 219

Stanhope demonstrator, logic machine, Boolean algebra, symbolic logic,	Steel production blast formers are as a second
3/10gisiii) 1057 N in m 60 73	steel production, blast furnace, iron ore, smelting, furnace smelting under
staphylococcus, hospital infections, antibiotic resistance, revival of classical aseptic routines 1959 Jun p. 41-45	iron ore, Labrador deposit
the table as a second of the s	continuous casting, metallurgical engineering, economic advantages
penicilin effective 1957 Mar n. 70	1063 Dec. p. 74 99
nospital-acquired infection 1959 May p. 78	oxygen injection, open hearth furnace, basic oxygen process
synthetic peniciliin 1061 Apr p 20	1968 Apr p 24-31 direct-reduction processes, iron ore, iron melting, sponge iron
staphytococcus septicentia, antibiotics, antibiotic resistance, toxicology	1976 July n 68-80
oxidative phosphorylation, cause of death from staphylococcal	Norwegian plant near Arctic Circle 1949 June n. 28
starfish, escape response, marine invertebrates, limpets, scallop, prey-	USSR tries oxygenation of blast furnaces 1949 Sept p 28
predator relationship, snail, chemical signals	rolling plus bending 1964 May p 64 roasting taconite with scrap 1966 June p 56
1972 July n 92-100 (125.11	roasting taconite with scrap 1966 June p 56 continuous-process plant 1968 Aug p 46
Startight, why it twinkles 1950 Feb n 27	by basic-oxygen (L-D) process 1975 Mar p 49
starlight polarization, Faraday rotation, galactic magnetism, spiral galaxies, spiral arms, stiffening of spiral arms by Milky Way	Stein's paradox, batting averages, estimation theory, statistics, approach
magnetic field 1965 June p 46-54	of averages to norm 1977 May p 119-126 [363]
Starling, cardiology, 'Law of the Heart', biography of Ernest Starling	stelae cult, New World archeology, Maya cermonial center, British Honduras, Lubaantun, Pusilha sites 1972 May p 82-91
1951 Oct. p. 56-61	stellar aberration, Earth, orbital motion, Gamma Draconis, discovery of
cardiology, heart metabolism, 'Law of the Heart', venous catheter	stellar aberration by James Bradley 1964 Mar p 100-108
Study 1957 Feb. p 50-54	stellar anatomy, globular cluster stars, stellar evolution, Red Giant stars,
Starlings' hypothesis, lymphatic system, intercellular fluid, lymph nodes, lymph vessels, lymph ducts, lymphatic circulation, lymphedema, the	stellar modeling, main-sequence stars, H-R diagram, age of cluster
body's 'second circulation' 1963 June p 80–90	stars 1970 July p 26-39 stellar associations, galaxy, stellar evolution, massive stars, nebulae,
startation, diet, fasting, human nutrition, metabolism, kwashiorkor,	massive stars are short-lived 1956 Feb p 36-41
marasmus, physiology of starvation 1971 Oct. p 14-21 [1232]	stellar cluster, interstellar gas, pleiades, stellar evolution, mass and
states of matter, synthetic diamonds, high pressure, carbon phases,	motion in and of clusters, clues to formation
thermodynamics 1955 Nov. p. 42–46 statistical sampling, quality control, sequential analysis, probability	1962 Nov p 58-66 [285]
1953 Mar. p 29–33	stellar composition, variable stars, organ-pipe analogy, stellar brightness 1975 June p 66-75
statistical seriation, New World archeology, mound builders, agricultural	stellar distances, galactic yardstick, spectroscopy, calcium absorption
revolution, Mississippian culture, pre-Columbian Mississippi valley	lines supply new 'yardstick' 1961 Jan p 107-119
on verge of urban revolution 1952 Mar p 22-27	stellar energy, thermonuclear reaction, proton-proton interaction, carbon cycle 1950 Jan p 42-45
statistics, 'social physics', social sciences, physical sciences, correlating social statistics and physical law 1948 May p 20–23	cycle 1950 Jan p 42-45 stellar evolution, binary stars, solar system 1949 Oct p 42-45
mode, median, sampling, sequential sampling 1952 Jan p 60-63	supernovae, Crab Nebula 1949 Dec p 18-21
information theory, thermodynamics, noise, redundancy, digital	astronomy, galaxies, red shift, galactic recession, universe expansion,
storage media, analogue storage media, information compression,	science, general relativity, astronomy 1900-1950 1950 Sept p 24-27 color, short-lived stars, main sequence 1953 Mar p 34-37
automatic control, information 1952 Sept p 132–148 probability, mathematical proof, fundamental reasoning, fundamental	color, short-lived stars, main sequence 1953 Mar p 34-31 stellar populations, galactic rotation, galactic evolution, fundamental
research, What is probability? 1953 Sept p 128~138	research, Why do galaxies have spiral form? 1953 Sept p 89-99
mathematics, probability, combinatorial analysis, normal curve,	galaxy massive stars nebulae, stellar associations, massive stars are
Brownian motion, Markov chain, Pascal's triangle, probability	short-lived 1956 Feb p 36-41 thermonuclear reaction, element abundance, universe, isotopes,
theory 1964 Sept p 92–108 archeology, coins, numismatics, Taxila hoard, India	'synthetic' elements, particle accelerator, experimental astrophysics
1966 Feb p 102~111	1956 Sept p 82-91
batting averages, estimation theory, Stein's paradox, approach of	galaxy, universe, stellar populations, spiral galaxies, distribution of 'population I' and 'II' stars in local Galaxy 1956 Sept p 92-99
averages to norm 1977 May p 119–126 [363]	'population I' and 'II' stars in local Galaxy 1956 Sept p 92-99 extraterrestrial life, main-sequence stars, binary stars, probability of
steady-state universe, cosmology, energy transformation, universe, according to Hoyle 1956 Sept p 157-166	extra terrestrial life calculated from astronomical numbers
steam distillation, essential oils, oleoresins, vacuum distillation, flavors,	1960 Apr p 55-63
perfumes 1953 Aug p 70-74	globular cluster stars, dwarf stars, H-R diagram, spectroscopy,
steam engine, mine drainage, technology history, Watt, pumps, Industrial	subdwarf stars bluer because poorer in heavy elements 1961 June p 111-120
Revolution, Newcomen engine, origins of steam engine 1964 Jan p 98-107	interstellar was inlegades is tellar cluster, mass and motion in and of
steam turbines, electric power generation, ship propulsion, turbine blade	clusters, clues to formation 1962 Nov p 38-00 [203]
design construction of turbines, applications, history	stellar rotation, Doppler effect, spectroscopy, violet shift, red shift, correlation of rotational velocity with mass 1963 Feb p 46-53
1969 Apr p 100-110 energy transformation, energy demand, fuel-conversion efficiency,	Clouds of Magellan, galaxy, ultraviolet radiation 1964 Jan p 32-41
power, prime movers, magnetohydrodynamics, gas turbine, internal	nebulae. Orion nebula, ultraviolet radiation, hydrogen density, dating
combustion engine, fuel cell, solar cells, power, nuclear power,	interstellar bodies 1965 Feb p 90-101 gravity, space-time continuum, gravitational collapse thermal pressure.
comparative efficiencies of energy transformation pathways in	singularity, gravitational radius, black hole 1967 Nov p 88-98
industrial civilization 1971 Sept p 148–160 [608] steatopygia, anthropology, human evolution, chimate, human migration, steatopygia, anthropology, human evolution, chimate, human migration, steatopygia, anthropology, human evolution, chimate, human migration, and human	udal effects, gravitation effects, contact binaries, binary stars, stellar
and non-lation genetic variation, ancient inigiation and numer	fission 1968 June p 34-40 globular cluster stars, Red Giant stars, stellar modeling, main-sequence
1900 Sept B 112-127 [00-]	stars, H-R diagram, stellar anatomy, age of cluster stars
steel, materials technology, transformation-induced plasticity, strength,	1970 July p 26-39
ductility ausform process, materials technology,	Crab Nebula, neutron stars, pulsar, radio source, gravitational collapse,
heat-treating for strength 1963 Aug p 72–82	gravitational collapse, neutron stars, pulsar, solid stars, white dwarfs,
steel frame construction, wind bracing, skystrapers, construction will	ultradense matter 19/1 Feb D 24-31
technology, Effel Tower, cantilever, these p 92–105	celestial energy, cosmological 'hangups', energy cycle, power, radiation energy, entropy per unit energy, gravitational energy, thermonuclear
steel markets, from ore, coal reserves, transportation, changing geography	energy 1971 Sept p 30-39 [662]
31001 11902 Jan D 444-33	infrared astronomy 1973 Apr p 28-40

spectroscopy, age of elements, age of universe, element formation, mass spectroscopy, nucleochronology, radioactive nuclei, supernovae	vitamin D, sex hormones, cholesterol, cortisone 1955 Jan p 52-60 [8] cell receptors, endocrine hormones, gene regulation, hormonal action,
1974 Jan p 69-77 chondrites, element formation, planets, solar system chemistry, space	protein synthesis 1976 Feb p 32-43 [1334] adrenal hormones, brain circuitry, gonadal hormones, hormone-
exploration 1974 Mar p 50-65	sensuive neurons, sex hormones, sexual behavior, sex differences,
comet, galactic formation, nebular hypothesis, solar system evolution 1975 Sept p 32-41	action of hormones on nerve tissue 1976 July p 48–58 [1341] total synthesis 1951 June p 30
black hole, interstellar gas, magnetohydrodynamics, neutron stars,	as anesthetic 1955 Aug. p 49
pulsar, supernovae, X-ray sources 1975 Dec. p. 38–46	total synthesis 1955 Sept p 76
supernovae, spectroscopy, supernovae observed in other galaxies	acetate start in material 1957 Mar p 72
1976 Dec p 89–101	act by gene activation 1972 Mar p 42 stick-slip friction, friction, bearing, violin bow, lubrication, uses and
black hole, binary stars, galactic energetics, globular cluster stars, neutron stars, X-ray stars, astronomy satellites, 'bursters'	prevention of friction 1956 May p 109-118
1977 Oct p 42–55 [385]	stickleback, courtship display, animal behavior, sexual behavior, displacement activity, ethology 1952 Dec p 22-26 [414]
interstellar matter, supernovae, shock waves, gravitational collapse, stellar formation, birth of massive stars 1978 Apr p 110-118 [3005]	stillbirths, some found seasonal 1951 Apr p 35
stellar formation, galaxy structure, interstellar matter, Milky Way,	stilt house, building construction, architecture, primitive architecture,
supernovae, galactic dust clouds, nebulae, Gum Nebula, Bok	chmate, igloo, teepee, yurt, tent, sod hut, adobe house, hogan
globules 1972 Aug p 48-61	1960 Dec p 134-144
Bok globules, gravitational instability, interstellar clouds, interstellar dust, local galaxy 1977 June p 66-81 [366]	stimulated emission, maser, microwave amplification, quantum mechanics, coherent radiation, principles and uses of maser
dust, local galaxy Interstellar matter, supernovae, shock waves, gravitational collapse,	1958 Dec p 42-50 [215]
stellar evolution, birth of massive stars 1978 Apr p 110-118 [3005]	laser, maser, coherent radiation, first lasers as 'optical masers'
in Orion nebula 1955 Nov p 49	1961 June p 52-61 [274]
interstellar matter, variable stars, infrared radiation, lithium, youngest	stimulus localization, brain circuitry, mammalian brain, nerve signals, sensory systems, visual perception, superior colliculus in integration
stars? 1967 Aug p 30 stellar interiors, heat, thermonuclear reaction, hydrogen bomb, solar	at brain function 1972 Dec p 72–82 [553]
corona, proton-proton interaction, helium reaction, ultrahigh	Stirling cycle, cryogenic technology, refrigeration, hot-air engine, closed
temperatures 1954 Sept p 144-154	cycle, displacer 1965 Apr p 119–127
stellar magnetic fields, cosmic radiation, radio emissions,	Stirling engine, Philips air engine, heat engines, external combustion
megnetohydrodynamics, electrical induction, electricity in space 1952 May p 26-29	engines, hot-air engine 1948 July p 52-55 automobile engines, external combustion engines, engine efficiency
stellar modeling, globular cluster stars, stellar evolution, Red Giant stars,	1973 Aug p 80–87
main-sequence stars, H-R diagram, stellar anatomy, age of cluster	Stjerneborg, observatory, astronomy, scientific instrumentation, Tycho
stars 1970 July p 26-39	Brahe, science history, 16th century Hven observatory
stellar populations, Palomar Observatory, cosmology, red shift,	1961 Feb p 118-128 Stockholm, land use, urban planning, cities, land ownership, urban
interstellar matter, galactic evolution, Hale telescope, first yield from 200 inch telescope 1952 Feb p 43-51	renewal, Stockholm as a planned city 1965 Sept p 106–115
stellar evolution, galactic rotation, galactic evolution, fundamental	Stokes law, insect flight, aerodynamics 1958 Dec p 92-98
research, Why do galaxies have spiral form? 1953 Sept. p 89–99	stomach mucosa, digestion, hydrochloric acid, alcohol, aspirin, self-
galaxy, stellar evolution, universe, spiral galaxies, distribution of 'population I' and 'II' stars in local Galaxy 1956 Sept p 92-99	digestion safeguards 1972 Jan p 86–93 [1240] stomatopods, animal behavior, mantis shrimps, marine life
spiral arms, galactic structure stellar classification and structure of	1976 Jan p 80–89
galaxies 1958 Nov p 44–50 [203]	Stone Age civilization, Greek prehistory, Neolithic archeology, Franchthi
stellar rotation, Doppler effect, stellar evolution, spectroscopy, violet	Cave 1976 June p 76–87
shift, red shift, correlation of rotational velocity with mass 1963 Feb p 46-53	Stone Age hunters, organic relics peat bog, Neolithic archeology
stellar shift, artificial satellite, relativity theory, Mercury, electromagnetic	1952 May p 20-25 Arctic, Alaska, Siberia, Greenland, Dorset culture, circumpolar Stone
frequency shift, perihelion shift, clock paradox, general relativity,	Age culture 1954 June p 82–88
testing Einstein's general theory of relativity 1959 May p 149–160	stone artifacts, New World archeology, Omon Portage site, Eskimo,
stellar temperature, photocell, light amplification, photomultiplier, variable stars, interstellar matter 1952 Mar p 56-59	Bering land bridge, human migration, Alaska, gateway to America
stellerator, fusion reactor, nuclear power, magnetic bottle, plasma	1968 June p 24–33 West Indies, New World archeology, Hispaniola, island chains, sea
confinement, deuterium, tritium, magnetic pumping	routes, seafaring hunters from Central America?
1958 Oct p 28-35 stereochemistry, olfactory nerve sensory perception, olfaction,	1969 Nov p 42–52 [652]
stereochemical theory of odor perception 1964 Feb p 42–49	stone heads, Easter Island, Polynesian culture 1949 Feb p 50-55 stone tools, New World archeology, Folsom man, Cochise culture
stereogram experiments, binocular vision, random-dot stereograms	1951 Feb n 15-19
vision, visual perception 1976 Mar p 80-86 [569]	human evolution, Olduvai Gorge, toolmakers, man-apes, hand axes
stereoisomers, catalysis, polymers, materials technology, industrial chemistry, synthesizing giant molecules 1957 Sept. p 98–104	1954 Jan p 66-71
catalysis, polymers, materials technology, industrial chemistry.	science history, Neanderthal man, Devon caves, human evolution, idea of man's antiquity 1959 Nov p 167-176
synthesizing giant molecules 1957 Nov p 98–104	Isimiia, Paleolithic culture, cultural archeology, Old Stone Age site in
catalysis, lithium, polymerization, promotion of polymerization by lithium 1963 Jan p 88-102	Ainca 1961 Oct p 118-120
stereopsis, binocular vision, depth perception eve. neurophysiology.	anthropology, Paleolithic culture, obsidian, Andes, El Inga site, prehistoric man in the Andes 1963 May p. 116-128
optic chiasm, visual cortex 1972 Aug n 81_95 112551	Solutrean culture, Upper Paleolithic hunting peoples, tool in enteres
'stereoregular' polymers, polymers, isotactic polymers, polyethylene, catalytic polymerization, polypropylene, precisely constructed	France, 21,000 years ago 1964 Aug n 06 04
polymers 1961 Aug n 33_11 [315]	aborigine, Paleoninic man, dingo, Tasmanian devil, Australian
stereoscopic images, pattern recognition, visual percention, computer	aborigine, antiquity of man in Australia 1966 Mar p 84-93 [628] New World archeology, South America, early man in New World,
graphics, fexture discrimination, depth perception	12,000 D C 1067 Nov 44 60
sterilization, biological pest control, screw worm fly, X-ray, pest control,	tool assemblages, multivariate analysis factor analysis nomenter
tarile, eragication of the screw norm for then one = 54 Ct	analysis, rateoninic areneology, Bordes method, stone tools as fossils
neroid normones, semzophrenia, stress, adrenal gland	of behavior 1969 Apr p 70–84 [643] Paleolithic campsite, huts, structures from 300,000 years ago
1949 July p 44-47	1969 May p 42-50

cave dwellers, Peru, human evolution, Ayacucho site	down a last a last
1971 Apr n 26	streamer chamber, linear accelerator, track detectors, pulse generator,
cumate, Europe, numing, Paleolithic settlements 1076 E. L. = 00	1907 UCL p 38-46
timate, cumural evolution, hunter-gatherer societies, Nile prehistory,	Strength materials technology start transformation 1954 Feb p 64-68
Palaclata automitic Settlements 1976 Aug p 30-	ductility 1000 No. 2015
Paleolithic culture, Kalambo Falls site 1958 July p Australopithicous, toolmaker 1974 Aug p	streptococcus, Ascholf bodies, rheumatic fever, infection, immine
X1. 1.1	10 response, fleart disease, hypersensitivity 1965 Dec. n. 66-74
Stonehenge, radiocarbon dating, built 4,000 years ago, 2,000 years befor	a possible vaccine 1966 Dec. p. 65
Druids 1953 June p 25-2	
Neolithic archeology, woodhenges, henge monuments, Britain	Type The antibiotic Tevolution (ATV Will by the Division of the Control of the Co
1970 Nov p 30–3	bacteria, gene transformation, drug resistance, pneumococcus,
Sarsen carvings 1053 Dag n 5	o Tivery, McLeod and McCarly
storage mode, liquid crystals, display devices, dynamic scattering	isoniazid, isotopes, tuberculosis, para-aminosalicylic acid,
television receiver 1970 Apr p 100_10	6 pharmacology, tracing action of TB drugs 1956 Nov p 135-144
storage rings, high-energy physics, synchrotron, particle accelerator,	antibiotics, protein synthesis, genetic code, nbosome, DNA, RNA,
colliding beam accelerator, spark chamber	mutation, 'misreadings' induced by antibiotic alterations of
1966 Nov p 107-116 [322] antimatter, electron-positron annihilation, J particle, psi particle,	1966 Apr p 102-109
charm, color, quark, high-energy physics, virtual particles	on market 1952 Sept p 74
1975 June p. 50-6	made safer 1955 Dec p 50
straight line, mathematics, Euclidean geometry, geometry, curved line,	genetic code 1964 July p 44 stress, hypertension, atherosclerosis, angiotensin, etiology and care of
reach and limits of axiomatic approach 1956 Mar p 104-11.	hypertension 1948 Aug. p 44-47
strain gauge, obstetrical labor, uterine muscle, measurement of forces in	psychosomatic illness, alarm reaction, kidney disorder, cardiovascular
uterine muscle at delivery 1950 Mar p. 52-54	disease, adrenal gland 1949 Mar p 20-23 [4]
earthquake prediction, laser, interferometry, Earth crust	schizophrenia, adrenal gland, steroid hormones 1949 July p 44-47
1969 Dec p 88–95	, , , , , , , , , , , , , , , , , , , ,
strain hardening, crystal structure, dislocations, forging, metal forming, creep in metals 1975 Apr. p. 116–125	experience with and appraisal of two hormonal drugs
creep in metals 1975 Apr p 116-125 circle-grid analysis, crystal structure, metal stamping, sheet-metal	
production, metal structure 1976 Nov p 100–108	neurosis, learning, psychotherapy, experimental neuroses in cats 1950 Mar p 38-43 [443]
strange particles, high-energy physics, pions, muon, conservation of	epidemiology, anoxia, pregnancy, Down's syndrome, trisomy 21,
strangeness, sorting out the multiplicity of particles	etiology of Down's syndrome 1952 Feb p 60-66
1957 July p 72-88 [213]	asthma, allergy, hypersensitivity 1952 Aug p 28-30
strangler trees, ecology, evolution, tropical rain forest 1954 Jan p 78-80	conditioned reflex, neurosis, operant conditioning, Pavlov, psychology,
Strategic Arms Limitation Talks, see SALT	thyroidectomy, emotional behavior, neurosis, conditioned reflex is
strategic balance, ABM, arms race, ICBM, MIRV, SLBM, mutual assured destruction, counterforce strategy, national security	shown to be a neurosis 1954 Jan p 48-57 [418] ACTH, war, combat fatigue, psychiatry, Korean war studies of
1969 Aug p 17–29 [330]	battlestress 1956 Mar p 31-35
strategic bombing, atomic bomb, civilian morale, 'bomb not absolute	ulcer, psychosomatic illness, 'executive monkey' experiment
weapon' says P M S Blackett 1949 Mar p 19	1958 Oct p 95~100
strategic weapons, ABM systems, arms race, ICBM, MIRV, atomic	learning, behavior disorders, animal behavior, stimulation in infancy
weapons, SALT, atomic test ban, prospects for freeze on numbers	1960 May p 80–86 [436]
and qualitative improvement of weapons 1971 Jan p 15-25 arms control, atomic test ban, 'fireball blackout', EMP effect,	ACTH, adrenal hormones, glucocorticoids, pituitary hormones 1971 Jan p 26-31 [532]
underground nuclear explosions 1972 Nov p 15-23 [342]	coming behavior insychosomatic illness, rats
arms control, satellite, SALT, verification technology, 'national	1972 June p 104-113 [544]
technical means of verification' 1973 Feb p 14-25 [346]	adrenal hormone 1961 Oct p 88
arms race, bombers, SALT, AWACS, military expenditures,	see also alarm reaction
antiaircraft sytems 1973 Aug p 11–19	stress-corrosion failure, corrosion tunnel, crystal structure, dislocations, metalliding 1966 Feb p 72-81
ABM, ICBM, MIRV, atomic armaments, counterforce strategy, mutual assured destruction, arms race 1973 Nov p 18–27	metalliding 1966 Feb p 12-01 stress fracture, crystal structure, materials technology, metallurgy, cracks
assured destruction, arms race 1973 Nov p 18-27 counterforce strategy, atomic weapons, cruise missiles, MIRV, arms	and fracture 1960 Feb p 94-104
race, missile accuracy, CEP, accuracy as multiplier of force	stretch reflex, central nervous system, reflex arc, neuromuscular control,
1975 July p 14-23	muscle contraction, nerve inhibition, interneuron, motor neuron,
arms race, cruise missiles, SALT, tactical weapons, control systems,	Renshaw cell, synapse 1966 May p 102-110 muscle control, muscle spindles, psychophysics, sensory feedback,
navigation systems 1977 Feb p 20-29 [691]	servomechanisms, tendon organ 1972 May p 30-37 [1249]
arms control, SALT, cruse missiles, bombers, Carter administration 'comprehensive proposal' for US-USSR force levels	strown fields, tektites, meteoritic impact, origin of glassy stone
1977 Aug p 24–31 [696]	1961 Nov p 58-65 [802]
attackfied charge internal combustion engine, atmospheric engine, Otto-	striatum, animal behavior, learning, cerebral cortex, bird nervous system,
Langer engine history of Otto engine 1967 Mar p 102-112	crows, pigeons, canaries, chickens 1968 June p 64–76 [515]
strationary sandstone sand dune, granite, weathering, turbidity	stride, architecture, stairs, walking 1974 Oct p 82-90 string instruments, physics, harmony, wind instruments, piano, voice,
currents, sand origin and history from shape of grain 1960 Apr p 94-110	musical scale acquistics, agreeable melodies and physical laws
Antarctica, glaciation, Antarctic continental glacier, ice, volume of ice	1948 July p 32-41
1 legged montrollegitions 1904 Dept D 194-170 (994)	musical instruments, 'following bow' experiment, Raman waves, 'wolf
in glacier satellite cratering lunar time scale, Ranger	note, physics of bowed string 1974 Jan p 87-95 note, physics of bowed string 1975 Dec p 23-29
	strip-mining, coal mining, land reclamation 1975 Dec p 23-29 Stromgren sphere, Gum Nebula, ionized-hydrogen cloud, Milky Way
to the state of th	19/1 DEC B 20~27
aurora, noctifucent clouds, meteorology	Strong engine, diffraction grating, spectroscopy, ruling engine, Rowland
aviation, flight at flight attracts shock waves exploding wire, generation	engine, the ultimate machine 1952 June p 45-54 strong-focusing synchrotron, particle accelerator, plans for 100 billions
of shock waves by exploding wire 1962 May p 102-112	electron-volt machine
strong ecology, trout, mortality, population constant, more 1 96	Ciferior ton annual
ones and let the big ones go'	

colliding beam accelerator, cyclotron, synchrotron, high-energy	suggestibility, hypnosis, sleep, physiological psychology, experiments in hypnosis 1957 Apr p 54-61
physics, design and purposes of big accelerators 1958 Mar p 64-76 [251]	suicide, epidemiology, psychoanalysis 1954 Nov p 88–96
Brookhaven gets ok 1954 Mar p 45	adolescence, family, alienation, racial discrimination, divorce, poverty,
trong' force, high-energy physics, baryons, mesons, 'eightfold way',	infant mortality, crime, drug addiction, changes in American family
conservation laws, Regge trajectory, resonance 'particles', 'bootstrap'	structure 1974 Aug p 53-61 [561]
hypothesis 1964 Feb p 74–93 (296)	unemployment, suicides among the jobless 1963 July p 68
proton spin, spin, high-energy physics, electron scattering, dependence	sulfa drugs, biochemistry, enzymes, virus, citric-acid cycle, metabolism,
of nuclear forces on spin 1966 July p 68-78	co-enzymes, antibiotics, science, biochemistry 1900-1950 1950 Sept p 62-68
hadrons, high-energy photons, photons as hadrons	metabolite antagonists, imitative drugs, folic acid, para-aminobenzoic
1971 July p 94–104	acid 1951 Apr p 60-63
particle interaction, high-energy physics, gauge theory, field theory, weak force electromagnetic force 1974 July p 50-59	sulfur, sulfuric acid, agricultural technology, Frasch process, sulfur
weak' force, electromagnetic force 1974 July p 50-59 gravity, electromagnetic force, 'weak' force, supergravity, symmetry,	demand-and-supply production 1970 May p 62–72
quest for unified theory of basic forces 1978 Feb p 126–143 [397]	sulfur bacteria, purple bacteria, phototropism, photosynthesis
strong interactions, mesons, nuclear binding force, particle physics,	1951 Nov p 68-72
fleeting associations of mesons and atomic nuclei	ATP, mineral cycles, biosphere, phosphorus cycle, sulfur cycle,
1956 Oct p 93–102 [207]	carboxylation cycle, eutrophication, mineral cycles in the biosphere
mesons, pions, particle physics, nuclear binding force, quantum of the	1970 Sept p 148–158 [1195]
strong force 1957 Jan p 84-92 [226]	sulfur cycle, ATP, mineral cycles, biosphere, phosphorus cycle, sulfur
dual-resonance model, high energy physics, hadrons, light-string theory quark 1975 Feb p 61-67	bacteria, carboxylation cycle, eutrophication, mineral cycles in the biosphere 1970 Sept p 148–158 [1195]
theory, quark 1975 Feb p 61-67 strontium-rubidium ratios, isotope dating, lead isotopes, radioisotope	biosphere 1970 Sept p 148–158 [1195] sulfur dome, in Mississippi delta 1951 Oct p 34
dating, geological and paleontological time dated by radioactive	sulfuric acid, sulfur, agricultural technology, Frasch process, sulfur
decay 1949 Aug p 48-51	demand-and-supply production 1970 May p 62-72
strychnine, alkaloids, plant physiology, morphine, 'hemlock',	Sumer, law code, Lipit Ishtar, Hammurabi, cuneiform script, earliest law
physostigmine, caffeine, comine, quinine, cocaine, ricinine, LSD,	code 1865 B C 1948 June p 44-47
human toxins in plant physiology 1959 July p 113-121 [1087]	cryptology, hieroglyphs, a 3,500-year-old agricultural handbook
total synthesis 1954 Dec p 56	1951 Nov p 54-55
stud gun, safety regulations 1963 Jan p 66	law code, hieroglyphs, Ur-Nammu 1953 Jan p 26–28
student body, ectomorphs preferred 1954 Nov p 52 subduction, continental drift, plate tectonics, scaling, sea-floor spreading,	Mohenjo-Daro, Harappan civilization, Indus valley, archeology 1953 Nov p 42-48
Earth crust, Triassic period, Pangaea, computer modeling,	archeology, cuneiform script, law code, 3000 B C to 1500 B C, Ur,
supercontinents, breakup of Pangaea traced	Nippur 1957 Oct p 70-83
1970 Oct p 30-41 [892]	pictograph, Vinca culture, writing, Tartaria tablets, Romania, cultural
subduction zones, continental drift, earthquake zones, magnetization	diffusion, Sumerian writing 1968 May p 30-37
patterns, mountain formation, plate tectonics, sea-floor spreading,	ancient trade, archeology, writing, Elamite culture, Mesopotamian
overview of the new geology 1972 May p 56-68 [900]	culture, Persia, Iran, Tepe Yahya 1971 June p 102–111 [660]
earthquake zones, island arcs, lithospheric subduction, mountain formation, plate tectonics, sea floor spreading, volcanic zones	hieroglyphic library 1952 Apr p 42 Sun, solar system, cosmology, dust cloud hypothesis, gravity, light
1975 Nov p 88–98 [919]	pressure, gravitational collapse, thermonuclear reaction, genesis of
subjective probability, psychology, probability, decision making, Monte	solar system 1948 May p 35-45
Carlo fallacy, gambling, subjective and objective probability	carbon cycle, thermonuclear reaction, sunspots, solar spectrum, nearest
1957 Nov p 128–138 [427]	star 1948 Nov p 26–39
submarine canyons, ocean floor, continental shelf 1949 Apr p 40-43	solar flares, ionospheric storms, aurora, sunspots, geomagnetic storms
ocean floor, turbidity currents, continental shelf, submarine avalanches and topography of ocean floor 1956 Aug. p 36-41	1951 Dec p 17–21
and topography of ocean floor 1956 Aug. p 36-41 submarune-launched ballistic missile, see SLBM	radio emissions, sunspots, magnetic storms, corpuscular streams 1955 June p 40-44
submersibles, marine technology, drilling platforms, ocean, supertankers,	balloon astronomy, ultraviolet radiation 1959 May p 52-59
containenzation, technology and the ocean	ultraviolet radiation, telemetry, astronomy, rocket borne
1969 Sept p 198-217 [887]	instrumentation 1959 June p 52-59
subsistence economy, economic development, industrialization, tropical	solar eclipse, ionosphere, solar flares, chromosphere, ultraviolet
rain forest, tropical rain forest, urbanization, resource management, Brazil, uneven national development 1963 Sept p 208-220	radiation, Earth-Sun chromosphere-ionosphere interaction
Brazil, uneven national development 1963 Sept p 208-220 subsistence herding, animal husbandry, Karimojong, cattle, Uganda	1962 Feb p 50-59
1969 Feb p 76–89	solar atmosphere, sunspots, rotation, magnetic field, eddies, solar atmospheric circulation 1968 Jan p 100-113
subterranean heat flow, ocean floor, East Pacific Rise, trench faults,	artificial satellite, ultraviolet radiation, ultraviolet astronomy,
earthquakes, convection currents 1961 Dec p 52-61	spectroheliograph 1969 June p. 92-102
suburbanization, U S population, population redistribution, U S census,	chromosphere, corona, eclipse phenomena, photosphere, solar corona
human migration, US census of 1970 1971 July p 17-25 suburbs, US census, urbanization, age sex distribution, baby boom,	1973 Oct n 68-79
family size, central city, US census at 1960 1961 July p 39-45	planets, solar system, space exploration, introduction to single-topic
nousing, urban planning, central city, cities, metropolitan area.	
conurbation, evolution of the metropolis 1965 Sept. p. 64_74	issue on the solar system 1975 Sept p 22–31
	neutrino, solar corona, solar energy, solar magnetism, sunspots
local government, cities, New York, metropolitan region, central city	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42-50 a variable (slightly) star 1955 Oct. p. 46
Northeast Corridor, regional planning 1965 Sent p. 134_148	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42-50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70
Northeast Corridor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42-50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68
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local goverment, cities, New York, metropolitan region, central city, Northeast Corndor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior,	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 54 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere. Il-year solar cycle explained 1966 Nov 5 54 62
local goverment, cities, New York, metropolitan region, central city, Northeast Corndor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior, kittens, learning 1972 Dec p 18-25 [552]	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 54 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere. Il-year solar cycle explained 1966 Nov 5 54 62
Northeast Corndor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior, kittens, learning 1972 Dec p 18-25 [552] sugar consumption, implicated in diseases	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 54 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere, 11-year solar cycle explained 1966 Nov p 54–62 Sun dogs, halos, ice crystals, optics, atmosphere halos
Northeast Corridor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior, kittens, learning 1972 Dec p 18-25 [552] sugar consumption, implicated in diseases 1972 Nov p 54 sugar metabolism, insulin, amino-acid sequence, cell membrane, human physiology, action of insulin	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 54 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere, I1-year solar cycle explained 1966 Nov p 54–62 Sun dogs, halos, ice crystals, optics, atmospheric halos 1978 Apr p 144–152 [3006] Sun structure, sunspots, solar rotation, solar spectrum
Northeast Corridor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior, kittens, learning 1972 Dec p 18-25 [552] sugar consumption, implicated in diseases 1972 Nov p 54 sugar metabolism, insulin, amino-acid sequence, cell membrane, human physiology, action of insulin 1958 May p 99-106 sugarcane, disease resistant plants plant breeding agreement and page 1972 properties.	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 45 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere, 11-year solar cycle explained 1966 Nov p 54–62 Sun dogs, halos, ice crystals, optics, atmospheric halos 1978 Apr p 144–152 [3006] Sun structure, sunspots, solar rotation, solar spectrum
Northeast Corndor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior, kittens, learning 1972 Dec p 18-25 [552] sugar consumption, implicated in diseases 1972 Nov p 54 sugar metabolism, insulin, amino-acid sequence, cell membrane, human physiology, action of insulin 1958 May p 99-106 sugarcane, disease resistant plants, plant breeding, agronomy, plant disease, fungal infection, plant pathogens, mechanism of disease	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 54 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere, 11-year solar cycle explained 1966 Nov p 54–62 Sun dogs, halos, ice crystals, optics, atmospheric halos 1978 Apr p 144–152 [3006] Sun structure, sunspots, solar rotation, solar spectrum sunlight, photosynthesis, chlorophyll carolene retirene were
Northeast Corridor, regional planning 1965 Sept p 134-148 succulent plants, sand dune ecology, thermoregulation, behavioral adaptation, symbiosis, adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99 suckling, animal behavior, developmental psychology, homing behavior, kittens, learning 1972 Dec p 18-25 [552] sugar consumption, implicated in diseases 1972 Nov p 54 sugar metabolism, insulin, amino-acid sequence, cell membrane, human physiology, action of insulin 1958 May p 99-106 sugarcane, disease resistant plants plant breeding agreement and page 1972 properties.	neutrino, solar corona, solar energy, solar magnetism, sunspots 1975 Sept p 42–50 a variable (slightly) star 1955 Oct p 46 estimated life span 1957 Apr p 70 first balloon photographs of Sun 1957 Nov p 68 whole-body oscillations 1975 Sept p 45 Sun cycle, magnetic field, solar magnetism, photosphere, chromosphere, solar atmosphere, 11-year solar cycle explained 1966 Nov p 54–62 Sun dogs, halos, ice crystals, optics, atmospheric halos 1978 Apr p 144–152 [3006] Sun structure, sunspots, solar rotation, solar spectrum

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1971 Apr p 36-	streamer chamber, linear accelerator, track detectors, pulse generator, new particle detector 1967 Oct. p. 38-36
cumule, Europe, hunting, Palcolithic settlements 1976 P. L on A	1907 UCL D 38-46
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	streptococcus, Ascholf bodies, theumatic fever infection immine
Neolithic quarries in Britain	response, heart disease, hypersensitivity 1965 Dec p 66-74
Stonehenge, radiocarbon dating, built 4,000 years ago, 2,000 years before	a possible vaccine 1966 Dec. p. 65
Diulus 1953 luna n 26 2	the state of the s
Neolithic archeology, woodhenges, henge monuments, Britain	
1970 Nov. p. 30-3	bacteria, gene transformation, drug resistance, pneumococcus, recombinant DNA, biochemistry of Avery, McLeod and McCarty
Saisen carvings 1052 Day 5	8 experiment 1956 Nov p 48-53 [18]
storage mode, liquid crystals, display devices, dynamic scattering, television receiver 1970 Apr. p. 100-10.	ISOMIAZIO, ISOMORES, tuberculosis, nara aminocalizada and
storage rings, high-energy physics, synchrotron, particle accelerator,	pharmacology, tracing action of TB drugs 1956 Nov p 135-144
colliding beam accelerator, spark chamber	antibiotics, protein synthesis, genetic code, ribosome, DNA, RNA,
1966 Nov p 107–116 [323	mutation, 'misrcadings' induced by antibiotic alterations of
antimatter, electron-positron annihilation. I particle, psi particle	1500 Mpt p 102 Mpt
charm, color, quark, high-energy physics, virtual particles	on market 1952 Sept p 74 made safer 1955 Dec p 50
1975 June n. 50-62	genetic code 1964 July p 44
straight line, mathematics, Euclidean geometry, geometry, curved line,	stress, hypertension atherosolerosis angiotensin etiology and care of
reach and limits of axiomatic approach 1956 Mar p 104-114	hypertension 1948 Aug. p 44-47
strain gauge, obstetrical labor, uterine muscle, measurement of forces in uterine muscle at delivery 1950 Mar n 52-55	psychosomatic illness, alarm reaction, kidney disorder, cardiovascular
uterine muscle at delivery 1950 Mar p 52-55 earthquake prediction, laser, interferometry, Earth crust	
1969 Dec p 88–95	schizophrenia, adrenal gland, steroid hormones 1949 July p 44-47 cortisone, ACTH, inflammation, degenerative diseases, hormone,
strain hardening, crystal structure, dislocations, forging, metal forming,	experience with and appraisal of two hormonal drugs
creep in metals 1975 Apr p 116-125	1950 Mar p 30–37 [14]
circle-grid analysis, crystal structure, metal stamping, sheet-metal	neurosis, learning, psychotherapy, experimental neuroses in cats
production, metal structure 1976 Nov p 100–108	1950 Mar p 38-43 [443]
strange particles, high-energy physics, pions, muon, conservation of strangeness, sorting out the multiplicity of particles	epidemiology, anoxia, pregnancy, Down's syndrome, trisomy 21,
1957 July p 72–88 [213]	etiology of Down's syndrome 1952 Feb p 60-66 asthma, allergy, hypersensitivity 1952 Aug p 28-30
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1969 Aug p 17–29 [330]	battlestress 1956 Mar p 31–35
strategic bombing, atomic bomb, civilian morale, 'bomb not absolute weapon' says P M S Blackett 1949 Mar p 19	ulcer, psychosomatic illness, 'executive monkey' experiment 1958 Oct p 95-100
strategic weapons, ABM systems, arms race, ICBM, MIRV, atomic	learning, behavior disorders, animal behavior, stimulation in infancy
weapons, SALT, atomic test ban, prospects for freeze on numbers	1960 May p 80–86 [450]
and qualitative improvement of weapons 1971 Jan p 15-25	ACTH, adrenal hormones, glucocorticoids, pituitary hormones
arms control, atomic test ban, 'fireball blackout', EMP effect,	1971 Jan p 26–31 [532]
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antiaircraft sytems 1973 Aug p 11–19	stress-corrosion failure, corrosion tunnel, crystal structure, dislocations, metalliding 1966 Feb p 72-81
ABM, ICBM, MIRV, atomic armaments, counterforce strategy, mutual	metalliding 1966 Feb p 12-05 stress fracture, crystal structure, materials technology, metalling, cracks
assured destruction, arms race 1973 Nov p 18-27 counterforce strategy, atomic weapons, cruise missiles, MIRV, arms	and fracture and fracture 1960 Feb p 94-104
race, missile accuracy, C E P, accuracy as multiplier of force	stretch reflex, central nervous system, reflex arc, neuromuscular control,
1975 July p 14-23	muscle contraction nerve inhibition, interneuron, motor neuron,
arms race, cruise missiles, SALT, tactical weapons, control systems,	Renshaw cell, synapse 1966 May p 102–110
navigation systems 1977 Feb p 20–29 [691]	muscle control, muscle spindles, psychophysics, sensory feedback servomechanisms, tendon organ 1972 May p 30-37 [1249]
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1977 Aug p 24-31 [696]	1961 Nov p 38-03 100-1
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Langen engine history of Otto engine 1967 Mar p 102-112	crows pigeons, canaries, chickens stride, architecture, stairs, walking 1968 June p 64-76 [217]
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currents, sand origin and history from shape of grain 1960 Apr p 94-110	musical scale acquetics agreeable melodies and physical laws
Antarctic continental glacier, ice, volume of ice	1948 July D 32-41
-1- mars applications 1902 Sept p 132-140 [001]	musical instruments, 'following bow' experiment, Raman waves, 'wolf' note, physics of bowed string 1974 Jan p 87-95
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1 -4- manha	Stromoren sphere, Gum Nebula, lonized-liydrogen cloud, wilky way
stratosphere, upper atmosphere, ionosphere, radio communication, surora, noctilucent clouds, meteorology 1949 Jan p 30–39 aurora, noctilucent clouds, meteorology 1952 Feb p 20–23	Strong engine, diffraction grating, spectroscopy, ruling engine, Rowland
aurora, noctificent classification 1952 Feb p 20–23	= 1 1 1
track photography meteorites, shock waves, exploung	strong-focusing synchrotron, particle accelerator, plans for 100 billion-
of shock waves by exploding with	electron-volt machine 1953 May p 40–45
of shock waves by exploding wife stream ecology, trout, mortality, population control, moral keep the little stream ecology, trout, mortality, population control, moral keep the little stream ecology, trout, mortality, population control, moral keep the little stream ecology, trout, mortality, population control, moral keep the little stream ecology, trout, mortality, population control, moral keep the little	
ones and let the big ones go' 1953 May p 81-80	

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1971 July p 74–85	thermoregulation, hibernation 1953 Jan p 69-72 surfactant, synthetic detergents, anionic detergent, cationic detergent,
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1972 Aug. p 48-61	flotation, mineral separation, bubbles, collector ions, ore beneficiation
spectroscopy, age of elements, age of universe, element formation, mass	1956 Dec p 99-110
spectroscopy, nucleochronology, radioactive nuclei, stellar evolution	alveoli, lung collapse, premature infants, lecithin, breathing, surface tension, hyaline membrane disease, soaplike agents regulate surface
dense stars, hinary stars, X-ray binary stars 1974 Jan p 69–77	tension in lungs 1962 Dec p 120–130
dense stars, binary stars, X-ray binary stars 1975 Mar p 24-35 black hole, interstellar gas, magnetohydrodynamics, neutron stars,	fetal lungs, infant, hyaline membrane disease, lung 1973 Apr p 74-85
pulsar, stellar evolution, X-ray sources 1975 Dec p 38-46	carbon dioxide, neuston, marine life, microlayer oceanography, ocean
Chinese starcharts, Tycho's supernova, Kepler's supernova, 'guest	surface, rainwater composition 1974 May p 62–77 [913]
stars', the seven observed supernovae 1976 June p 100–107	surgery, disease, morbidity, archeology, record of illness among the ancients 1949 Jan p 52-55
stellar evolution, spectroscopy, supernovae observed in other galaxies 1976 Dec p 89-101	sutures, surgical needles, surgical stitching 1950 Nov p 44-47
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1978 Apr p 110–118 [3005]	military medicine, medicine, science history, Pare, life and work of Ambroise Pare 1956 Jan p 90–96
helium to beryllium 1952 Mar p 40 in Lupus proposed 1965 May p 57	anesthesia, pain, cocaine, procaine, medical research,
observed in Sumer 1976 July p 66	neuropharmacology, pharmacology, psychiatry, research in pain
superplasticity, materials technology, metalliding, microduplex structure,	suppression 1957 Jan p 70–82
thermomechanical processing, grain structure, metals that can be	hibernation, hypothermia, shock, metabolism, body temperature,
formed like plastics 1969 Mar p 28-35 supersonic flight, heat barner, ayiation, lift barner 1953 Dec p 80-84	artificial lowering of body temperature for surgery and shock 1958 Mar p 104–114
supersonic flight, heat barrier, aviation, lift barrier 1953 Dec p 80-84 aerodynamics, shock waves, wind tunnel, molecular beam, ultra-high	gunshot wounds, medical history, assasination of U S President
altitude aerodynamics 1958 Jan p 36-42	McKinley 1963 Mar p 118–120
some boom, shock waves, noise pollution, supersonic aircraft design,	medical care, surgical specialties, mortality rates, malpractice claims,
geometry of shock waves 1962 Jan p 36-43	post-operative negligence 1973 Sept p 90-98 cerebral vascular accident, atherosclerosis, microvascular surgery,
aeronautics, commercial aircraft, aircraft design, sonic boom, aviation industry, technology and economics of supersonic transport	cerebral hemorrhage, repair and prevention of stroke by
1964 June p 25–35	microvascular bypass operation 1978 Apr p 58-67 [1385]
at Mach 2 1952 Sept p 69	autotransplantation of organs 1962 June p 80
strontium 90 fallout, commercial jet interiors 1959 Aug. p 62	Eastman 910 surgical glue 1963 Jan p 64 in excess 1977 Jan p 43
US competition with Concorde? 1963 Aug. p 48 supertankers, manne technology, drilling platforms, ocean, submersibles,	surgical isolator, dental research, germ-free environment, immune
containerization, technology and the ocean	response 1964 July p 78-88
1969 Sept p 198-217 [887]	surgical needles, surgery sutures, surgical stitching 1950 Nov p 44-47
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propagation of ocean waves 1959 Aug. p 74–84 [828] beaches, sand dune, sand bar, berm, ocean, rip channels, conservation	surgical specialties, medical care, surgery, mortality rates, malpractice
of beaches 1960 Aug p 80–94 [845]	claims, post-operative negligence 1973 Sept p 90-98
surf clam, visual perception, visual systems, scallop, inhibitory impulse,	surgical stapler, cardiovascular surgery, vascular surgery, stapling technic
shadow-sensitive receptors, invertebrate 'eyes' as models for study of organization of sensation in perception 1963 July p 122-130	for joining vessels 1962 Oct p 48-56 surgical stitching, surgery, sutures, surgical needles 1950 Nov p 44-47
surface alloy, alloys, metalliding, materials technology, diffusion, molten	surrogate mother, behavioral psychology, emotional deprivation,
fluoride, electrolysis 1969 Aug. p 38-46	maternal deprivation, rhesus monkeys, infant monkey 'love'
surface area, dermatoglyphics, skin, hair, skin glands, thermoregulation,	1959 June p 68-74 [429]
structure and function of human skin 1965 Feb p 56-66 [1003] surface chemistry, materials technology, solid state physics, crystal	surveying, laser, optical communication, holography, welding, light, laser technology 1968 Sept. p 140-156
defects, epitaxial growth, precipitation in solids, 'doping', chemical	suspended animation, animal behavior, cryptobiotic animals, metabolism
properties of materials 1967 Sept p 210–220	anaerobic metabolism, Nematoda, Rotifera, Tardigrada
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surface defects, crystal growth, metal 'whiskers', lattice defects, growth of	1954 Nov p 60–71
metal whiskers 1960 July p 64-72	Sutton Hoo, ship burial, Anglo-Saxon King, a treasure hoard
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1976 July p 82–93	gene transformation, tumor-virus antigen, virus etiology of cancer
surface mining, excavating machines, tunneling, rock borers, earth- moving, mining 1967 Nov p 74-85	1966 Mar p 34-41 gene culture, polyoma virus, cell transformation, viral DNA, viral
surface tension, adhesive, molecular attraction, elastic energy, epoxy	carcinogenesis 1967 Apr n 28-37 lincol
resins molecular repulsion, micromechanics of adhesion	cancer, gene transformation, chromosome mapping tissue culture
alveoli lung collapse premature infants, lecithin, breathing, surfactant,	somatic cells, hybrid cells, genetics of human cancer
nvaline membrane disease, soaplike agents regulate surface tension	Svea, commerce, Vikings, nomads, Scandinavia, Vinland, Siegfried
in lungs 1962 Dec. p. 120–130	legend, seafaring, appraisal of 400-year Viking ascendance
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11 argued 1970 Nov p. 52-71	swamp, climate, marshland, ecology, eutrophication, wetlands, natural history of marsh, effect on climate 1958 Oct p 114-122 (840)
cavilation, droplet-levitation technique, liquids, negative pressure concept, tensile strength 1972 Dec. p. 28-71	Swanscombe cranium, Homo sapiens Neanderthal man Charment III
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aquatic insects of the water surface	Sweden, assembly lines, mass production, work satisfaction, worker
1978 Apr p 134-142 [1387]	teams, management science, 'scientific management'
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architecture, lighting, solar radiation, building construction, glass	A
1968 Sept p 100 200	electromagnetism, mobium alloys, magnetism, proton beam focusing generation of intense magnetic fields 1967 Mar p 114-123
an ponduon, rickets, vitamin D, ultraviolet radiation, osteogenesis,	Citantum effects congress du trata
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1975 July n. 68-77 (1325)	BCS theory, crystal structure, electrical properties of metals.
proton-proton fusion 1957 Lin n 2.1	pounds; interediated erystais, tayeren
sumike stars, multiple-star systems, planetary systems, frequency of 'solar	electric power transmission lines 1972 Apr n 94 01
systems', survey of 123 nearby stars 1977 Apr p 96-104 sunrise, sunset, light scattering, green flash, green flash explained	electromagnetic flight, transportation, linear induction motor linear
1960 Lin n 112-122	synchronous motor, 'magneplane' vehicle, magnetic levitation
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Sunspots Sup earthor early thereason Leaves 1960 Jan p 112-122	niobium, molybdenum 1962 June p 82
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1951 Dec. p. 17–21	higher transition temperatures 1967 July p 42
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1955 June n. 4044	paleomagnetism, Glossopteris, sea-floor spreading plate tectonics
magnetic field, solar magnetism, Zeeman effect, mapping changes in solar magnetic field 1960 Feb. p. 52-62	continental drift confirmed 1968 Apr p 52-64 [874]
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atmospheric circulation 1968 Jan p. 100–113	spreading, Earth crust, Triassic period, Pangaea, computer modeling breakup of Pangaea traced 1970 Oct p 30-41 [892]
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physics, dendrochronology 1977 May p 80-92 (925)	fluid dynamics, liquid, nucleation, cryogenics, crystal growth behavior
suntanning, cancer, ultraviolet radiation, melanocytes, epidermis, skin,	of supercooled fluids 1965 Jan p 38-46
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superconductive amplifier, superconductivity, low-temperature physics,	absolute zero, Pomeranchuk method 1969 Dec p 26-33 supercritical boiler, 1,150 degrees F, 4,500 p s 1 1953 July p 41
critical field strength, superconductive motor, fluxtrap, superconductive bearing, applications of superconductivity	superdense matter, cosmic radiation, pulsar, radio emissions, supernovae
1960 Mar p 74-82	1971 July p 74-65
superconductive bearing, superconductivity, low-temperature physics,	superdense water, boundary-phase hypothesis, water II polymerization polywater, thermal conductivity, surface tension, evidence for water
critical field strength, superconductive motor, fluxtrap, superconductive amplifier, applications of superconductivity	H argued 1970 Nov p 32-77
1960 Mar p 74-82	superfluidity low-temperature physics, cryogenic technology, helium
superconductive glass, at 42 degrees K 1971 Feb p 47	superconductivity 1949 June p 30-39 [206] helium 1, helium 2, seond sound, quantum mechanics low-temperature
superconductive motor, superconductivity, low-temperature physics, critical field strength, fluxtrap, superconductive bearing,	physics, liquid helium properties 1958 June p 30-35 [224]
superconductive amplifier, applications of superconductivity	helium, supercooling, neutron scattering, fountain effect, 'quasi
1960 Mar p 74-82	helium 3 liquid phase gas phase solid state physics quantum effects
superconductivity, low-temperature physics, cryogenic technology, helium, superfluidity 1949 June p 30-39 [206]	quantum fluids, phase transitions 1976 Dec p 5057
electrical resistance, magnetism, cryogenics, upper limit of temperature	superfluidity helium, quantum mechanics, vortex ring macroscopic quantum effects, quantized vortex rings 1964 Dec p 116-122
of superconductivity 1957 Nov p 92-103 [227] low-temperature physics, critical field strength, superconductive motor,	oungraphs v. Adil v. Way, local clusters, galactic clusters
fluxtrap, superconductive bearing, superconductive amplifier,	1954 July p 30-55
annlications of superconductivity 1960 Mar p 74-82	supergravity, gravity, electromagnetic force 'weak' force 'strong' force symmetry, quest for unified theory of basic forces
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1964 June p 30–39	stars counted, some speculation on their nature 1953 Jan p 17-21 cosmic radiation, massive nuclei high-energy physics Milky Way
electric current, Josephson effects, microwave emission, tunnel junction, quantum mechanics, confirmation and applications of	magnetic field, particle acceleration fundamental research where do
T when offerts 1900 May p 30-37	cosmic rays come from? 1953 Sept p 64-70 [239] synchrotron radiation, radio star Crab Nebula natural synchrotron
aventum effects magnetism, magnetic vortexes, superconductors,	1957 Mar p 32-00
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metals increases with pressure	radio galaxies gravitational collapse, nonthermal emission
publication of the 'BCS theory' 1973 May p. 43	synchrotron radiation, intensity of galactic radio emission 1962 Mar p 41~49 [278]
in organic solids uperconductors, energy transfer, electron pairs, organic superconductor, uperconductor 1965 Feb p 21–27	polarization, astronomy, Crab Nebula, photometric observations of
proposal for room-temperature superconduction National Magnet	1902 Apr p 34-03
magnetic field, magnetism, Bitter solehold, 0 5 1 1965 Apr p 66-78	nova duturists cosmic radiation cosmic ray showers, galactic halo synchrotron radiation particle acceleration, abundance energies sources of
as machanics magnetic licid, magnetic	cosmic rays 1969 Feb p 50-63
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tarantula, digger wasp, symbiosis, predator-prey relationship
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Tartaria tablets, pictograph, Vinca culture, writing, Romania, Sumer, cultural diffusion, Sumerian writing 1968 May p 3

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nthane process, coal gasification, energy resources, gasification	
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technology 1974 Mar p 19-25	L
nthetic attractants, insecticide, insect attractant, chemotaxis, odor-	Talla anti-dismalanda antigana Daglia ammuna sustam lumnhatia
baited lure, pheromones, third-generation insecticides	T-cells, antibody molecule, antigens, B-cells, immune system, lymphatic system, lymphocytes 1973 July p 52–60 [1276]
1964 Aug p 20–27 [189]	system, lymphocytes 1973 July p 52–60 [1276] antibodies, bursa, cell differentiation, humoral immunity, B-cells,
nthetic detergents, anionic detergent, cationic detergent, surfactant,	immune system, lymphocytes, thymus 1974 Nov p 58–72 [1306]
nature and action of synthetic detergents 1951 Oct p 26–30	antibodies, cell membrane, histocomptability, antigens, immune
onthetic diamonds, high pressure, carbon phases, thermodynamics, states	response, immunoglobin, lymphocytes, B-cells
of matter 1955 Nov p 42–46	1976 May p 30–39 [1338]
high pressure technology, from laboratory to industrial applications 1965 May p 38-46	T4 virus, bacteriophage, virus structure, DNA, mutation, morphogenesis,
crystal growth, diamond-crystal structure, graphite-crystal structure,	test-tube reconstruction of viral components
	1967 July p 60–74 [1079]
synthesis at low pressure 1975 Nov p 102–109 G E. in business 1955 Apr p 47	table of elements, periodic table, 'synthetic' elements, transuranium
pressure reduced by catalysis 1960 Jan p 74	elements, stable isotopes, isotopes, first of a series of articles,
synthetic' elements, cosmology, red shift, galactic recession, element	recounting the completion of the table of elements (43 [technetium],
abundance, universe expansion 1948 July p 20–25	61[promethium], 85[astatine] and 87[francium]) and the first five
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61[promethium], 85[astatine] and 87[francium]) and the first five	attention to rare earths 1951 Nov p 26–30
transuranic elements (93[neptunium], 94[plutonium], 95[americium],	californium, einsteinium, fermium, 'synthetic' elements, transuranium
96[curium] and 97[berkelium]) 1950 Apr p 38–47 [242]	elements, mendelevium, radioactive decay, periodic table at 101
thermonuclear reaction, element abundance, stellar evolution, universe,	1956 Dec p 66-80 [243]
isotopes, particle accelerator, experimental astrophysics	element 98 californium 1950 May p 27
1956 Sept p 82–91	table of isotopes, atomic nucleus, shell model, 'magic numbers', spin-orbit
californium, table of elements, einsteinium, fermium, transuranium	coupling 1951 Mar p 22–26
elements, mendelevium, radioactive decay, periodic table at 101	tachistoscope, digit recall, short-term memory, long-term memory,
1956 Dec p 66-80 [243]	memory 1966 July p 90–95 [499]
uranium fission, nuclear fission, fission products, radium, isotropy,	tachyons, Cerenkov radiation, high-energy physics, speed of light, special
transuranium elements, science history, discovery of fission	relativity, hypothetical particles faster than light 1970 Feb p 68–77
1958 Feb p 76–84	taconite, iron ore, mining, ore beneficiation, low-grade ores, hematite
element 103, lawrencium, transuramium elements, high-flux isotope	1968 Jan p 28–35
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1963 Apr p 68–78 alpha decay, transuranium elements, isotopes, nuclear stability, beta	1978 May p 44–51 [3007]
decay, radioactive decay, periodic table, the 'superheavy' elements	deployment by U S forces in Europe 1973 Oct p 47
beyond 103 1969 Apr p 56–67	not counted in SALT 1975 May p 42
isotopes, elements, radioactive decay, atomic nucleus, exotic isotopes of	tactical weapons, arms race, cruise missiles, SALT, strategic weapons,
light elements 1978 June p 60–72 [3010]	control systems, navigation systems 1977 Feb p 20–29 [691]
transuranium elements, element 97 1950 Mar p 28	tadpole, frog, thyroid hormone, amphibian metamorphosis, chemistry of
99 and 100 1954 Apr p 48	amphibian metamorphosis 1963 Nov p 110–118 [170]
17 atoms of 101 1955 July p 50	talking computers, speech synthesis, vocal tract, spectrograph, Voder
transuranium elements, nobelium 1958 July p 49	1972 Feb p 48–58
transuranium elements, element 103 1961 June p 84	communication, computer language, man-machine interface
5)nthetic fiber, rayon, nylon, synthetic macromolecules, cellulose, glass, man-made textile fibers 1951 July p 37-45	1975 Mar p 36–42 Tallensi, Ashanti, social anthropology, kinship, extended family, social
glass fiber, materials technology, composite materials, plastics,	structure, social psychology, primitive Tallensian and Ashantian
properties of 'two-phase' materials 1962 Jan p 124–134	kinship 1959 June p 146–158
terylene 1951 Apr p 34	tanker wastes, marine ecology, marine pollution, tar, pelagic tar
synthetic fuels, energy conservation, nuclear power, fossil fuel, solar	1975 June p 90–97
energy, energy policy of U S 1974 Jan p 20–29 [684]	tankers, natural gas, liquid natural gas, pipelines, storage, distribution of
synthetic hevea, rubber, man made natural rubber 1955 Dec. p 50	LNG 1967 Oct p 30–37
synthetic macromolecules, synthetic fiber, rayon, nylon, cellulose, glass,	energy economics, energy storage, economic geography, pipelines.
man made textile fibers 1951 July p 37-45	power transmission, power, economic geography of energy
synthetic polymers, amorphous polymers, polymer microstructure,	production, distribution and consumption
random coil model, semicrystalline polymers, thermoplastic	1971 Sept p 164–175 [669]
polymers 1975 Dec p 96–106 synthetic RNA, interferon induction, poly I C, virus disease	energy resources, fuel imports, liquid natural gas, technology
1971 July p 26–31 [1226]	assessment, risk estimation, LNG 1977 Apr p 22-29
syphilis, antibodies 1949 June p 27	tape recorders, music, sound reproduction, speech grammaphones, auditory perception, engineering of sound systems
synnx, bird song, communication, songbirds, mechanism of sound	
production 1969 Nov p 126–139 [1162]	1961 Aug. p 72–84 tapetum lucidum, bioluminescence, fish, fish-scale crystals, optics under
systems analysis, operations research, decision theory	water, camounage 1071 for $= 64.72$ (1200)
1951 Mar p 15-17	tar, marine ecology, marine pollution, tanker wastes, pelagic tar
computer programming, computer language, computer technology,	1975 June n. 00 07
how to write a computer program 1966 Sept p 112–124	tal salids, lossil luci, petroleum reserves, coal reserves, energy
ctites, urban transport, computer modeling, personal-transit systems, mass transit	consumption, liquid-fuel consumption, shale, coal liquefaction, the
systems design, accounting, computer technology, computer decision	idei problem 1040 Dec 22, 20
making, bookkeeping, uses of computers in organizations	chergy combines, oil shales, netroleum, shale retorts, notantial hand
or to imparato in organizations	hydrocarbon reserves 1966 Feb. p. 21, 20

1966 Sept p 192-202

Leibnitz, biography

swim bladder, marine biology, buoyancy, chambered nautilus, cuttlebone Dodgson, barber paradox, mathematics, paradox 1972 July p 38-46 1960 July p 118-128 counter-current exchange, rete mirabile, heat conservation, physiology, symmetry, handedness, natural and conventional 1948 Oct p 46-49 time reversal, reversible reactions, probability against it in macroscopic kidney, gill, physics of a physiological invention 1957 Apr. p 96 swimming, fish, laminar flow, turbulence, purpoises, how fishes and sea-1956 Aug. p 107-114 elementary particles, parity, 'weak' force, quantum, particle interaction, going mammals swim 1957 Aug p 48-54 [1113] right and left-handed particles breakdown of parity metabolism, salmon, fish migration, laboratory observation of energy 1957 Apr p 45-53 [231] production by salmon 1965 Aug p 80-85 [1019] antimatter, elementary particles, 'weak' force, parity, particle swinging, parametric amplification 1977 Apr p 60 interaction, recognition of 'fourth force' switchboards, complexity theory, networks, mathematics from networks 1959 Mar p 72-84 [247] parity, time reversal, CPT mirror, mirror images and switching systems 1978 June p 114-124 [3013] 1965 Dec p 28-36 [301] switching, fluid dynamics, amphfiers, Coanda effect, logic gates time reversal, parity, charge conservation, lambda decay, CPT 1964 Dec. p 80-88 conservation, proton spin, experiments in time reversal amorphous semiconductors, glass, memory, threshold switch, memory 1969 Oct p 88-101 1969 Nov p. 30-41 gravity, electromagnetic force, 'weak' force, 'strong' force, supergravity, switching circuits, symbolic logic, Boolean algebra, paradox quest for unified theory of basic forces 1978 Feb p 126-143 [397] 1950 Dec. p 22-24 synapse, acetylcholine, hormone, nerve impulse, serotonin, emotional switching elements, binary arithmetic, computer technology, integrated illness, neurotransmitters, central nervous system, physiological circuits, logic circuits, computer memory, microelectronics, hardware psychology, chemical mediation of nerve impulses of computer 1966 Sept p 74-85 1957 Feb p 86-94 switching phenomena, amorphous semiconductors, nonperiodic systems, electric fishes, sodium ion potential, electroplaques, neurophysiology, Ovshinsky devices, quantum mechanics, semiconductor technology acetylcholine, animal behavior, nerve impulse, bioluminescence 1977 May p 36-48 [362] 1960 Oct p 115-124 Switzerland, Paleolithic culture, 'lake-dwellers', prehistoric Swiss lakenerve conduction, reflex arc, motor neuron, membrane potential, dwellers 1961 Dec p 138-147 inhibitory impulse, transmitter molecules, nerve excitation, activity sychrotron radiation, Crab Nebula, X-ray astronomy, Scorpius, neutron at the neural synapse 1965 Jan p 56-66 [1001] stars, X-ray astronomy by rocket-borne instruments central nervous system, reflex arc, neuromuscular control, muscle 1964 June p 36-45 contraction, nerve inhibition, interneuron, motor neuron, stretch syllogisms, logic machine, Stanhope demonstrator, Boolean algebra, 1966 May p 102-110 reslex, Renshaw cell symbolic logic 1952 Mar p 68-73 bacterial toxin, tetanus, botulism, paralysis, nerve impulse, inhibitory Sylvester method, artificial respiration, Schaefer method impulse, motor neuron, Clostridium tetani, Clostridium botulinum 1968 Apr p 69-77 1951 July p 18-21 symbiosis, virus, herpes simplex, chick-embryo culture aplysia, neurones, behavior, learning, memory, heterosynaptic 1949 Nov p 50-53 facilitation, memory and learning at nerve-cell level tarantula, digger wasp, predator-prey relationship 1952 Aug p 20-23 1970 July p 57-70 [1182] ruminants, metabolism, cellulose digestion, anaerobic metabolism, acetylcholine, nerve impulse, neurotransmitters, nerve muscle synapse, fermentation, how cows digest grass 1958 Feb p 34-38 chemical mediation of neuromuscular transmission 1977 Feb p 106-118 [1352] sand dune ecology, thermoregulation, succulent plants, behavioral nerve circuits, dendrites, postsynaptic potential, olfactory bulb, retina, adaptation, adaptation, adaptive mechanism for life in hot acid 1978 Feb p 92-103 [1380] environment 1959 July p 91-99 microcircuits in the nervous system synchronous muscle, muscle fibril, sarcoplasmic reticulum, insect flight, algae, lichens, fungi, desert ecology, polar ecology, symbiotic nature of lichens 1959 Oct p 144-156 [111] asynchronous muscle, insect flight muscles 1965 June p 76-88 [1014] ecological niche, reef ecology, cleaning behavior, animal behavior, synchrotron, colliding beam accelerator, cyclotron, high energy physics, 1961 Aug p 42-49 [135] behavioral integration of reef ecology strong-focusing synchrotron, design and purposes of big accelerators algae, lichens, fungi, fungi as symbionts in lichens 1958 Mar p 64-76 [251] 1963 Feb p 122-132 high-energy physics, storage rings, particle accelerator, colliding beam fungi, orchids, mycorrhiza, plant evolution, adaptation, adaptive ability 1966 Nov p 107-116 [323] accelerator, spark chamber 1966 Jan p 70-78 of orchids particle accelerator, National Accelerator Laboratory, proton beam, bacteria, algal bloom, blue-green algae, simplest plants, resemblance to 1974 Feb p 72-83 neutrino beam 1966 June p 74-81 bacteria 1953 June p 45 alkaloids, butterfly, larvae, insect repellants, behavioral adaptation, elevator engineer Christofilos synchrotron radiation, radio star, supernovae, Crab Nebula, natural plant evolution, mimicry, butterfly-plant association 1957 Mar p 52-60 1967 June p 104-113 [1076] radio galaxies, gravitational collapse, nonthermal emission, chloroplast, mitochondria, cell organelle, DNA, prokaryote origin, protein synthesis, plastids, cell evolution, extra-nuclear genetic supernovae, intensity of galactic radio emission 1962 Mar p 41-49 [278] 1970 Nov p 22-29 [1203] activity in cell red shift, radio galaxies, radio astronomy, lunar occultation, quasars cell evolution, cell organelle, chloroplast, endosymbiosis, eukaryotic 1963 Dec p 54-62 cells, mitochondria, prokaryotic cells, algae, cilia, flagella, plastids found to be extra-galactic cosmic radiation, radio galaxies, galaxy M 82, exploding galaxies, 1971 Aug p 48-57 [1230] 1964 Nov p 38-47 1973 Apr p 96-102 [1270] proposed origin of cosmic rays bee, bumblebee energetics, flower cosmic radiation, cosmic ray showers, supernovae, galactic halo, 1975 Apr p 96-105 bivalves, clams, marine life, mollusks particle acceleration, abundance, energies, sources of cosmic rays animal behavior, lions, predator-prey relationship 1975 May p 54-65 1969 Feb p 50-63 algae, bacteria, legumes, nitrogen fixation, nitrogenase, genetic electromagnetic spectrum, electron manipulation, electron storage engineering, Haber process, rhizobium, legumes, nitrogenase, rings, spectroscopy, X-ray lithography, X-ray probe, uses of 1977 Mar p 68-81 biological nitrogen fixation 1977 June p 32-41 [365] bacteria, bioluminescence, fish, flashlight fishes 1977 Mar p 106-114 synchrotron radiation synchrotron radiation microscope, idea dies with Cambridge Electron 1977 Oct p 81 calvena tree, dodo bird 1974 Feb p 44 symbolic language, chimpanzee, learning, operant conditioning, binary synchrotron seismograph, CERN instrument 'feels' tremors numbers, animal behavior, chimpanzee learning arithmatic 1960 Nov p 94 1964 May p 98-106 [484] syntactic analysis, computer applications, analog-to-digital conversion, symbolic logic, Boolean algebra, switching circuits, paradox computer modeling, computer technology, computer as instrument 1950 Dec p 22-24 1966 Sept p 160-172 and as 'actor' in science logic machine, Stanhope demonstrator, Boolean algebra, syllogisms syntactic rules, grammar, language organization, linguistics, speech 1952 Mar p 68-73 1973 Dec p 110-117 [556] errors, spoonerisms mathematics, philosophy, Leibnitz, calculus, calculating machine, syntax, verbal communication, communication, acoustic formants,

1968 May p 94-100

phonetics, markedness/unmarkedness dyad, morphemes, context

Earth crust, mountain formation, isostasis, granitization, ocean basins,	telephone systems, communication networks, communication satellite,
ocean floor, comprehensive review of understanding (before	electronic switching, multiplexing, network theory, radio,
acceptance of continental drift) 1950 May p 32-41	communication, television systems 1972 Sept p 116–128
geology, mathematical model, scaling, block fault, geosynchine,	telescope, astronomy, image enhancement, electronic camera, image intensifier, electronic image processing 1956 Mar p 81–90
experimental geology 1961 Feb p 96-106	
dust storms, Mars, terrestrial planets, cratering, mountain formation,	camera, lens design, interferometry, computer graphics, image formation, light 1968 Sept p 96-108
erosion, hydrology, solar system 1975 Sept. p 106-117	
teepee, building construction, architecture, primitive architecture,	
climate, igloo, yurt, tent, sod hut, adobe house, hogan, stilt house	television, content analysis, allocation of time, a critical review by
1960 Dec p 134–144	educators 1951 June p 15–17
teeth, enamel, dentin, metabolism, fluoridation 1953 June p 38-42	underwater 1953 June p 32–37
tektites, meteoritic impact, strewn fields, origin of glassy stone	aggression, violence, delinquency, motion picture film, catharsis, effects of observing filmed violence 1964 Feb p 35-41 [481]
1961 Nov. p 58-65 [802]	of observing filmed violence 1964 Feb p 35-41 [481] cable television, communication technology, wired-city concept
Earth, meteorites, moon, moon as source of tektites	1971 Oct p 22–29
1964 Feb p 50-57	
comet, geomagnetism, magnetic reversals, meteorites, meteoritic	two million families glued to tube 1949 Sept p 26 in education 1951 Jan p 27
impacts 1967 July p 32–38	educational programming 1952 Mar p 40
from Earth or moon? 1961 June p 86 chemical composition 1962 June p 84	suppression abreaction 1955 July p 52
1000 31	see also color television
	television camera, Mars, space exploration, computer enhancement,
	telemetry, computer graphics, Mariner IV photographs, Martian
Telanthropus, a species of genus Homo 1970 June p 52 telecommunication, artificial satellite, communication satellite, orbital	topography 1966 Apr p 54-68
motion, Echo II satellite, radio, satellite communication systems,	vision, retina, photographic emulsion, vidicon, photochemistry, light,
	image detection, electronic camera 1968 Sept p 110–117
consideration of alternatives 1961 Oct p 90-102 artificial satellite, communication, data transmission, pulse-code	Mariner 6, Mars, Mariner 7, telemetry, orbital motion, polar cap,
modulation, digital transmission 1966 Sept. p 144–156	cratering, surface pictures and map of Mars 1970 May p 26-41
communication technology, digital transmission, microelectronics	television for farm areas, transmitter ranges to overlap 1948 Dec p 26
1977 Sept p 192–209 [382]	television receiver, liquid crystals, display devices, dynamic scattering,
radio astronomy, channels reserved for astronomical study	storage mode 1970 Apr p 100-106
1959 Dec p 82	television systems, communication networks, communication satellite,
radio astronomy, UHF TV bands to radio astronomy	electronic switching, multiplexing, network theory, radio,
1963 July p 65	communication, telephone systems 1972 Sept p 116–128
telemetry, artificial satellite, orbital motion, rocket launcher, plans for	television violence, communication, mass-communication media, message
US 10-pound (pre-Sputnik) satellite 1956 Nov p 41–47	systems, cultural patterns, sociology, mass communications as social
artificial satellite, solar particles, cosmic radiation, Van Allen belts,	environment 1972 Sept p 152–160 [679]
geomagnetism, radiation belts, space exploration, mapping of	temperament, behavior, encephalitis, hyperactive child, genetic disease,
radiation belts by Explorer satellites 1959 Mar p 39-47 [248]	amphetamines, possibly innate disease syndrome
ultraviolet radiation, Sun, astronomy, rocket-borne instrumentation	1970 Apr p 94–98 [527]
1959 June p 52–59	personality, child development, parental care, infant behavior,
Arctic Ocean, ocean circulation, meteorology, Northeast Passage, ice-	interaction of temperament and environment, nature-nurture
floe islands, bathymetry, marine biology, Soviet Arctic research	1970 Aug p 102–109 [529]
1961 May p 88–102	'temperate' infection, carcinogenesis, polyoma virus, recombinant DNA, virus disease, genetic transduction, viral induced malignancy
weather satellites, Tiros, atmospheric circulation, heat budget of Earth,	VITIS disease, genetic transduction, viral induced malignancy
air masses, videocameras, photographic weather maps, weather	1960 Nov p 63-71 [77]
forecasting 1961 July p 80-94	1960 Nov p 63-71 [77] temperature, heat, thermodynamics, quantum mechanics, entropy,
forecasting 1961 July p 80~94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of	1960 Nov p 63-71 [77] temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat?
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept. p. 58-63
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature,
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting,	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journey	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera,	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98-106
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98-106 temperature measurement, oxygen isotopes, foramunifera abyssal
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98-106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journey 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102]	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98–106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography,	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, chimatic change, measurement of ancient temperatures 1958 Feb p 54-63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and
forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, chimatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32–42 [894]
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forecasting 1961 July p 80-94 gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58-63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109-119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54-63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32-42 [894] temperature range, heat, life, heat and life 1954 Sept p 64-68 temperature regulation, 'cold-blooded' animals, ectothermy metabolism
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gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41 signal reinforcement by artificial satellites, ghost effect 1961 Jan p 88 telephone, electronic telephone, solid-state electronics, integrated circuits, telephone based on integrated circuits 1978 Mar p 58-64 [3002] trans-Atlantic coaxial 1955 Aug. p 47 transpacific cable 1964 Apr p 64 optical telephone, system tested 1976 Dec p 53 telephone vaciles, wave guide 1955 Apr p 47 telephone switching, electronic switching, electromechanical switching, markers, electronic replaces electromechanical switching,	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98–106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32–42 [894] temperature range, heat, life, heat and life 1954 Sept p 64–68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up mechanisms 1972 June p 70–77 [1252] temperature standard, cesium clock, length standard, mass standard, time standard, interferometry, measurement 1968 June p 50–62 temple of Apollo, Greek civilization, underwater archeology 1974 Oct p 110–118 temporal relations, biological clock, time perception, temperature-time interrelation, kappa movement effect 1964 Nov p 116, 124 tendon organ, muscle control, muscle spindles, psychophysics, sensory feedback, sen omechanisms, stretch reflex 1972 May p. 30–37 [1249] tendons, aging, collagen, biological age 1963 Apr p 104–114 [155] tensile strength, cavitation, droplet-levitation technique, liquids, negative-
gamma-ray astronomy, astronomy, Earth satellite, first glimpse of gamma-ray sky 1962 May p 52-61 Mariner 2, space exploration, Venus, navigation, orbital motion, high-resolution studies of Venus 1963 July p 70-84 animal migration, animal navigation, turtles, sexual behavior, nesting, Chelonia mydas, green turtle, 1,400-mile journes 1965 May p 78-86 [1010] artificial satellite, Mars, space exploration, Mariner 4, spacecraft navigation, spacecraft 1966 Mar p 42-52 Mars, space exploration, computer enhancement, television camera, computer graphics, Mariner IV photographs, Martian topography 1966 Apr p 54-68 animal migration, polar bears, satellite, Arctic, satellite tracking of migratory animals 1968 Feb p 108-116 [1102] moon, lunar surface, space exploration, high-resolution photography, Lunar Orbiter space missions 1968 May p 58-78 Mariner 6, Mars, Mariner 7, orbital motion, polar cap, television camera, cratering, surface pictures and map of Mars 1970 May p 26-41 signal reinforcement by artificial satellites, ghost effect 1961 Jan p 88 telephone, electronic telephone, solid-state electronics, integrated circuits, telephone based on integrated circuits 1978 Mar p 58-64 [3002] trans-Atlantic coaxial 1955 Aug. p 47 transpacific cable 1964 Apr p 64 optical telephone, system tested 1976 Dec p 53 telephone vaciles, wave guide 1955 Apr p 47 telephone switching, electronic switching, electromechanical switching, markers, electronic replaces electromechanical switching,	temperature, heat, thermodynamics, quantum mechanics, entropy, equation of state, energy, black body radiation, What is heat? 1954 Sept p 58–63 degrees C, means Celsius, not Centigrade 1949 May p 26 see also day-night temperature, high temperature, low temperature, body temperature temperature at a distance, optical pyrometer 1955 Oct p 50 temperature limits, heat, chemistry, regenerative furnace, nitrogen fixation, high temperatures chemistry 1954 Sept p 109–119 heat, materials, ablation, rocket nozzle, turbine bucket, high temperatures materials 1954 Sept p 98–106 temperature measurement, oxygen isotopes, foraminifera, abyssal sediments, paleontology, glaciation, climatic change, measurement of ancient temperatures 1958 Feb p 54–63 temperature of Earth, climate, air pollution, atmospheric circulation, carbon dioxide 'window', particulates, ozone, human activity and climatic change 1971 Jan p 32–42 [894] temperature range, heat, life, heat and life 1954 Sept p 64–68 temperature regulation, 'cold-blooded' animals, ectothermy, metabolism, heterothermy, insect flight, sphinx moths, Mandura sexta warm-up mechanisms 1972 June p 70–77 [1252] temperature standard, cesium clock, length standard, mass standard, time standard, interferometry, measurement 1968 June p 50–62 temple of Apollo, Greek civilization, underwater archeology 1974 Oct p 110–118 temporal relations, biological clock, time perception, temperature-time interrelation, kappa movement effect 1964 Nov p 116, 124 tendon organ, muscle control, muscle spindles, psychophysics, sensory feedback, serv omechanisms, stretch reflex 1972 May p. 30–37 [1249] tendons, aging, collagen, hological age.

commerce, invention, patent-law reform

Tasmanian devil, aborigine, stone tools, Palcolithic man, dingo, Australian aborigine, antiquity of man in Australia	Chinese industry, economic development, progress of People's
1966 Mar n. 9.1 02 (62	Republic of China in computer electronics, instrumentation and
rasmanians, cultural anthropology, racial discrimination, gangerela	Control technologies 1977 Dec. p. 11.17
Yumbri, Yamana, vanishing primitive cultures 1957 May p 39-4 taste, chemical senses, olfaction, chemoreceptor	Bruegel the Elder, Renaissance technology, glimpses of practical knowledge at work 400 years ago 1978 Mar p 134-140 [3003]
tuste, element series, offaction, chemoreceptor	implications of 'automation' 1057 May n KK
silkworm, olfaction, chemical senses, insect chemoreception,	see also medical technology, agricultural technology and the like
comparative physiology 1958 Apr p 97 10	technology assessment, color television, picture elements, line structure,
taste buds, hearing, vision, sensory organs, ommutidis, neurorgentor	rota seaming rate, competing color television systems weighed
cells, cytology, how cells receive stimuli 1961 Sept p. 222–238 [99] taste receptors, sensory perception, Pacinian corpuscle, touch, olfactory	, re
receptors, mechanoreceptors, pain receptors, biological transducers	catastrophe 1962 Aug n 29–35 [1100]
1960 Aug n 98_108 170	ir transport, science policy, automobile transportation, air pollution, noise pollution, technology assessment institutions proposed
blowlly, chemoreceptor 1961 May p. 135 14	1970 Feb p 13-21 [332]
tau particle, leptons, heavy leptons, elementary particles, small light- particle family gains new member 1978 Mar p 50-57 [398	decision theory, energy economics, power production, tort law,
tawny owl, animal behavior, nocturnal animals, predator-prey	
relationship 1955 Oct. p. 88–98	electromagnetic spectrum, irradiation standards, microwave diodes, microwave radiation, risk estimation 1972 Feb p 13-21
taxation, housing, land use, population density, shantytowns, government regulation, urban planning, cities, control of land use	civil defense, arms race, fallout, limited nuclear warfare, flexible-
1965 Sept p 150–160	response strategy, limited nuclear war 1976 Nov p 27-37
air pollution, cities, water supply, sewage disposal, smog, water	energy resources, fuel imports, liquid natural gas, risk estimation, tankers, LNG 1977 Apr p 22-29
pollution, Los Angeles, New York, metabolism of cities	Congressional report 1966 Dec p 57
on sulfur in fuel 1965 Sept p 178–190	U S institutions urged 1969 Oct p 46
on sultur in fuel 1971 Mar p 48 taxonomy, botany, set theory, computer applications, zoology, numerical	technology and law 1971 Feb p 45 legislation establishes agency 1972 May p 48
taxonomy, computer classification of living things	tanker operation 1975 Nov p 58
1966 Dec p 106-116 [1059]	coal technology, coal-slurry pipelines 1978 Mar p 70
new microcrustacean 1955 Mar p 54 Tay-Sachs disease, amniocentesis, enzyme deficiency, genetic disease,	technology history, rocket engine, reaction propulsion, regenerative
prenatal genetic diagnosis, hemophilia, Down's syndrome,	motor, liquid fuel, status of the technology on eve of space age 1949 May p 30-39
chromosomal anomalies 1971 Nov p 34–42 [1234]	friction, Leonardo, Coulomb, sliding surfaces, molecular cohesion,
enzyme deficiency, fat metabolism, genetic disease, amniocentesis, lipids, lipid-storage diseases, 10 lipid-storage diseases	'coppering' 1951 Feb p 54-58
1973 Aug p 88–97	steam engine, mine drainage, Watt, pumps, Industrial Revolution, Newcomen engine, origins of steam engine 1964 Jan p 98-107
Taylor column, Jupiter, Great Red Spot, planetary atmosphere, rotation	bearing friction gears Leonardo, Codex Madrid I
period, hydrodynamic explanation vs raft hypothesis	1971 Feb p 100-110
1968 Feb p 74–82 teacher expectations, educational performance, social deprivation,	automobile design, automobile racing, Paris-Bordeaux race of 1895 1972 May p 102-111
experiment in self-fulfilling prophecy for disadvantaged children	bicycle technology, economic development 1973 Mar p 81-91
1968 Apr p 19-23 [514]	coal technology, Industrial Revolution, iron smelting, blast furnace, Newcomen engine 1974 Aug p 92-97
pupils performance 1976 Nov p 54 teaching machine, operant conditioning, inductive reasoning, rhythm,	barge transport, canals, transportation, in U.S. 1976 July p. 116-124
education, self-teaching by small, rigorous steps	fossil fuel coal technology, Industrial Revolution, 16th c energy crisis,
1961 Nov p 90–102	wood-fuel shortage 1977 Nov p 140–151 [391] electric chair, Edison (DC) vs Westinghouse (AC) 1973 Apr p 45
computer technology, education, programmed instruction, individualized teaching 1966 Sept p 206-220 [533]	technology transfer, economic development, Industrial Revolution,
tear gas, bacteria, chemical weapons, biological weapons, Vietnam war,	entroduction to single-tonic issue on technology and economic
arms race, CS gas, virus disease, rickettsiae, herbicide, chemical-	development 1963 Sept p 52-61 economic development, agricultural technology, human nutrition, food
biological warfare 1970 May p 15-25 [1176] ears, lacrimal gland, hypothalamus, nerve impulse, reflex, psychogenic	production nutritional self sufficiency in economic development
and continuous tears 1964 Oct p 78-86	1963 Sept p 72-80 [1133]
Teays river, fossil river, Kanawha river 1952 June p 74–80	economic development, industrialization, mineral resources, metal consumption, natural resources and technological substitution
echnetium, rust, corrosion, oxidation, studies in corrosion 1956 May p 35-39	1963 Sept p 128-136
in the Sun 1951 Sept p 54	industrial technology, Nigeria, economic development, tribal politics,
echnical assistance, developing countries, economic development,	economic development of former colonial region 1963 Sept p 168-184
foreign aid, technology transfer, developing countries, human	economic development, industrialization, population control,
nonulation 1974 Sept p 172–182	agricultural production, food production, economic planning, India, economic development by democratic planning
echnological innovation, science history, windmills, pumps, blast furnace, bellows, medieval technology, medieval uses of the air	1963 Sept p 189-206
1970 Aug p 92–100 [330]	economic development, industrialization, economic planning market process versus planning in economic development
electronic circuitry, integrated circuits, microelectronics, silicon 'chips',	1963 Sept p 235–244
introduction to single-topic issue on microelectronics 1977 Sept p 62–69 [374]	foreign aid, developing countries, technical assistance, human
hyplogical unamployment, racial discrimination, U.S. Black	population 1974 Sept p 172-182 green revolution, India, food and agriculture, monsoons, irrigation,
1907 Sept p 102	fertilizers, rice, agronomy, wheat, hybrid crop plants
echnology, Earth crust, Mohorovicic discontinuity, Mohole, Earth mantle, objectives of Mohole Project 1959 Apr p 41–49 mantle, objectives of Mohole Project 1959 Apr p 41–49	1976 Sept p 154-163 developing countries, 'green revolution', food and agriculture,
. I seemanice intil-Ollfoll allaivals, labor force, o	1976 Scot p 196-203
impact of technological change, 1947-1938, input-output	tectoric processes, mountain formation, Earth mantie, conviction
commerce, invention, patent-law reform 1967 June p 19-27	currents, the 'blister hypothesis' 1949 June p 16-21 moon, cratering, meteorites, origin of lunar craters 1949 July p 20-24

perpetual motion, Maxwell's demon, second law of thermodynamics	sand dune ecology, succulent plants, behavioral adaptation, symbiosis,
1967 Nov p 103-110 [317] friction, perpetual motion machines, entropy 1968 Jan p 114-122	adaptation, adaptive mechanism for life in hot acid environment 1959 July p 91-99
energy-information interaction, entropy in communication, power,	comparative psychology, desert adaptation, kidney function, salt-water
information flow, information theory 1971 Sept p 179–188 [670]	balance, man camel comparison 1959 Dec p 140-151 [1096]
hermoelectricity, semiconductor, Seebeck effect, Peltier effect	homeostasis, hypothalamus, human physiology, human body
1958 Nov p 31–37	thermostat 1961 Jan p 134-147 [129] behavioral adaptation, ground squirrels, Mojave desert, animal
sound energy, heat conduction, cryogenics, phonon, quantum mechanics of heat conduction 1962 Dec p 92–104 [288]	behavior, kidney function, desert adaptation, desert mammals'
heat-to-electricity technology 1958 Nov p 58	adaptations to heat and aridity 1961 Nov p 107–116
bimetallic thermocouple 1959 Jan p 64	dermatoglyphics, skin, hair, surface area, skin glands, structure and
thermography, medical diagnosis, tumor, arthritis, skin temperature,	function of human skin 1965 Feb p 56-66 [1003]
circulatory disorders 1967 Feb p 94-102	adipose tissue, hibernation, brown fat, homeostasis, metabolism, cold
thermomagnetic cooling, crystallography, magnetothermoelectricity, semimetal, solid-state refrigeration 1964 June p 70–82	adaptation, neonatal physiology, heat production in newborn animals, including man 1965 Aug p 62-65 [1018]
semimetal, solid-state refrigeration 1964 June p 70-82 thermomagnetism, Ettingshausen effect, Hall effect, Nernst effect, Righi-	convection currents, plants, solar radiation, thermal radiation,
Leduc effect, galvanomagnetism, science history, industrial	transpiration, energy transfer, heat transfer in plant leaves
technology, technological applications of 19th c discoveries	1965 Dec p 76-84 [1029]
1961 Dec p 124-136	circulatory system, cold adaptation, fur, metabolism, insulation
thermomechanical processing, materials technology, metalliding,	1966 Jan p 94-101 [1032] antelope, desert adaptation, water drinking, evaporation, eland and
superplasticity, microduplex structure, grain structure, metals that can be formed like plastics 1969 Mar p 28-35	oryx, survival without drinking 1969 Jan p 88–95
thermonuclear energy, celestial energy, cosmological 'hangups', energy	heat exchange, mackerel shark, rete mirabile, comparative physiology,
cycle, power, radiation energy, entropy per unit energy, gravitational	tuna, warm-bodied fishes 1973 Feb p 36-44 [1266]
energy, stellar evolution 1971 Sept p 50-59 [662]	thermostat, control systems, feedback, water clock, windmills, automatic
thermonuclear reaction, solar system, Sun, cosmology, dust cloud	control, flyball governor, origins of feedback control
hypothesis, gravity, light pressure, gravitational collapse, genesis of solar system 1948 May p 35-45	1970 Oct p 110-118 thun-film optical devices, interferometry, fluorescence, wave motion, light
Sun, carbon cycle, sunspots, solar spectrum, nearest star	waves, monomolecular films, fatty acids 1970 Mar p 108–119
1948 Nov p 26-39	integrated circuits, laser light manipulation, light propagation in thin
proton-proton interaction, carbon cycle, stellar energy	films, optical circuits, photons instead of electrons in circuits
1950 Jan p 42–45	1974 Apr p 28–35
hydrogen bomb, arms race, the Hydrogen Bomb – first of four articles published at the time the U S government determined to proceed	thinking, learning, comparative psychology, rhesus monkeys, 'learning to think' 1949 Aug p 36-39 [415]
with its development, production, perfection and deployment	thioctic acid, fungi, mushrooms, mushroom poisoning, toxins, Amanita
1950 Mar p 11–15	phalloides 1975 Mar p 90-101
heat, stellar interiors, hydrogen bomb, solar corona, proton-proton	thirst, diabetes insipidus, salt excretion, electrolyte balance,
interaction, helium reaction, ultrahigh temperatures	thermoregulation, urine, kidney, physiological psychology,
1954 Sept p 144-154 nuclear power, 'atoms for peace', fission reactor, fusion reactor,	osmoreceptor theory of thirst, Cannon 'dry mouth' theory 1956 Jan p 70-76
CERN, first of a four-part report on the International Conference	Thomas Aquinas, concordance by computer 1957 Oct p 64
on the Peaceful Uses of Atomic Energy, Geneva, August 1945	Thompson, growth, form, science history, life and work of D'Arcy
1955 Oct p 27–33	Thompson 1952 Aug p 60–66
element abundance, stellar evolution, universe, isotopes, 'synthetic' elements, particle accelerator, experimental astrophysics	thorax, gas exchange, lung, pulmonary ventilation, breathing, alveoli, human physiology, vital capacity, mechanics and physiology of
1956 Sept p 82-91	breathing, anatomy of lung 1966 Feb p 56-68 [1034]
fusion reactor, nuclear power, magnetohydrodynamics, plasma	thorium, as breeder-reactor fuel 1977 May n 57
containment, pinch effect, thermonuclear energy for domestic power	thorium cycle, fission reactor, breeder reactor, nuclear power, energy
1957 Dec p 73-84 [236] magnetic field, plasma instability, fusion reactor, magnetic bottle,	economics, uranium cycle, breeder reactor development
anomalous diffusion, nuclear power, leakage of plasma	1960 Jan p 82-94 breeder reactor, nuclear power, fast neutron reactor, uranium cycle,
1967 July p 76–88	liquid-metal reactor, fission reactor, energy demand
cosmic radiation, solar radiation, neutrino, solar neutrino detector,	1970 Nov p 13_21 (339)
neutrino detection experiment and predictions 1969 July p 28-37 fusion reactor, laser implosion, nuclear power, nuclear power, plasma	three-cottages problem, topology, inner-tube eversion. Mobius band
confinement 1974 June p 24-37	Klein bottle, trefoil knot, Koenigsberg bridges, four-color-map
thermonuclear weapons, see atomic weapons, hydrogen bomb	problem 1950 Jan p 18-24 three-dimensional image, integral (lenslet) photography
thermoplastic polymers, polyethylene, polymers, catalytic polymerization,	1968 Sept p 01
properties, production, economics of first 1,000 million-pound plastic 1957 Sept. p. 139–152	unree-dimensional movies, Polaroid and persistence 1951 July 29
plastic 1957 Sept p 139-152 amorphous polymers, polymer microstructure, random-coil model,	thrombin, blood clotting, hemagglutination, fibrinogen, molecular
semicrystalline polymers, synthetic polymers 1975 Dec. p. 96-106	biology, fibrin, role of thrombin in converting fibrinogen into fibrin
thermoregulation, hibernation, metabolic rate, body temperature, animal	thrombus, blood clotting, Dicumarol, anticoagulant therapy
behavior 1950 Dec p 18-21 hummingbird, metabolism, body temperature, hibernation, surface-to-	1951 Mar n. 19 31
volume ratio 1953 Jan p 69–72	arteries, atherosclerosis, coronary disease, medicine, monoclonal
shrews, body temperature, metabolism, surface-to-volume ratio	hypothesis, plaque formation 1977 Feb p 74-85 [1351] thunder, acoustic pulses, air pressure, lightning 1975 July p 80-90
1954 Aug n 66-70	sound frequency 200 cycles per second
diabetes insipidus, thirst, salt excretion, electrolyte balance, urine, kidney, physiological psychology, osmoreceptor theory of thirst,	lightning, classifying bolts by sound
Cannon'dry mouth' theory 1956 Jan n. 7076	mandercroud, againing, ionization, physics of the lightning bolt
fever, leukocyte, homeostasis, hypothalamus, etiology of fever	thunderstorms, thermal cells, origin and course 1949 Feb p 22-27 1950 June p 48-50
1957 June p. 62. 69	atmospheric ionization, electric field. Wilson hymothesis
behavioral adaptation, 'cold blooded' animals, pigmentation, lizard, repule, behavioral thermoregulation 1959 Apr p 105-120	thanderstorms replement Earth's charge 1953 Apr n 22 27
170 d 14th 4 cert	Weather, wind, jet stream squall lines law also t

gy, Jan p 70-76 57 Oct p 64 'Arcy Aug p 60–66 g, alveoli, logy of 56-68 [1034] 77 May p 57 , energy Jan p 82~94 um cycle, 13-21 [339] us band, or-map Jan p 18-24 58 Sept p 91 51 July p 28 cular n into fibrin Mar p 60-66 Mar p 18-21 clonal 74-85 [1351] July p 80-90 68 Feb p 54 75 Jan p 49 olt Feb p 22-27 une p 48-50 tmosphere, 1953 Apr p 32-37 weather, wind, jet stream, squall lines, low-altitude jet streams 1961 Aug. p 120-131

tensile-stress hypothesis, continental drift, plate tectonics, sea-floor	to the second of
spreading, ocean ridges, convection currents, Earth mantle	texture agents, flavoring, food additives, food coloning, food
1960 Nov. n. 192 11	preservatives, safety of additives 1972 Mar p 15-21
tent, building construction, architecture, primitive are hitecture, chimate	texture discrimination, pattern recognition, visual perception, computer graphics, stereoscopic images, depth perception
rgioo, teepee, yuri, sod nut, adobe house, hogan, stilt house	1065 Pal = 20 40 (210)
1960 Dec p 134-14	pattern recognition, figure-ground perception, visual perception,
teosinte, corn, genetics, tripsacum, pod corn, popcorn, hybrid cells, New	perceptual limitations 1975 Apr n 34_43 15631
World archeology, plant genetic experiment and archeological finds	Thailand, Hoabinhian culture, Neolithic archeology, agricultural
point to pool corn as wild ancester of maise 1950 July p. 20-24 [26 Teotihuacan, Amerindian prehistory, Middle America, Mexico, New	revolution, Spirit Cave site 1972 Apr p. 34-41 [675]
World archeology, pre-Columbian metropolis 1967 June p. 38-49	thalidomide, Phocomelia, pharmacology, technology assessment, U.S.
world archeology, pre-Columbian metropolis 1967 June p 38-48 teratogenesis, mutation, genetic disease, studied for clues to genetic	PDA. in thalidomide catastrophe 1962 Aug. p 29-35 [1100]
controls 1950 June p. 16–19	F D A. regulations 1962 Sept. p 98
cleft palate, congenital anomalies, fetal injury, embryonic development,	
1057 Oct. n. 109-116	1,501,1,22, p 111 121
congenital anomalies, purpura, virus disease, vaccine, pregnancy.	theoretical chemistry, SHAB principle 1965 Aug p 46 theoretical physics, atom, Pault, exclusion principle, antimatter, quantum
congenital rubella, rubella 1966 luly p. 30, 37	mechanics, structure of atoms and nuclei 1959 July p 74-86 [264]
teratoma, cancer, multipotential cells, tumor, gene expression, plant cell,	symmetry schemes proliferating 1965 May p 50
inhibitions 1965 Nov. p. 75–83 [1024]	therapeutic community, group therapy, emotional illness, role-channeling
Teredo, shipworm, cellulose digestion, natural history	1971 Mar p 34-42 [534]
1961 Feb p 132-142 "Terman sample", scientists, sociability, social psychology, scientists and	
other people' compared on basis of 'Terman' sample of intellectually	ichthyosaurs, evolution, origin of mammals 1949 Mar p 40-43
gifted persons under three-decade longitudinal study	thermal cells, thunderstorms, origin and course 1950 June p 48-50
1955 Jan p. 25–29 [437]	aerodynamics, bird flight, airfoil, soaring 1952 Apr p 24-29 soaring, wind velocity, air currents, aerodynamics, ornithology, bird
terminal velocity, free fall, Galileo's experiments, gravity, acceleration of	flight, flight of soaring birds 1962 Apr p 130-140
gravity 1975 Mar v. 102–111	bird flight, gliding birds, soaring, vultures, lift phenomena
termite, social insect, cell analogy, behavioral adaptation, insect behavior	1973 Dec p 102-109
1953 May p 74-78	thermal conductivity, heat conduction, phonon, thermal waves, materials
Africa, entomology, insect behavior, air conditioning, airconditioned	technology, thermal properties of materials 1967 Sept p 180-188
termite nests 1961 July p. 138–145	boundary-phase hypothesis, superdense water, water II,
terramycin, new antibiotic 1950 July p 29 terrestrial magnetism, see, geomagnetism	polymerization, polywater, surface tension, evidence for water II argued 1970 Nov p 52-71
terrestrial planets, dust storms, Mars, cratering, tectonic processes,	argued 1970 Nov p 32-71 thermal neutrons, neutron radiography, fission reactor, nondestructus
mountain formation, erosion, hydrology, solar system	testing, neutrons as inspection tool 1962 Nov p 107-119 [287]
1975 Sept p 106-117	thermal pollution, nuclear power, industrial cooling, water pollution,
terrestrial radiation, wind, solar radiation, energy cycle, biosphere,	aquatic life, cooling towers, waste heat 1969 Mar p 18-27 [1135]
albedo, atmospheric circulation, climate, ocean circulation, carbon	calefaction, Connecticut River, fission reactor, industrial cooling.
dioxide 'window', Earth energy cycle 1970 Sept. p 54-63 [1189]	nuclear nower fishenes ecology fish costs
biosphere, energy cycle, photosynthesis, respiration, power, radiation	1970 May p 42-52 [1177]
energy, solar radiation 1971 Sept p 88–100 [664]	energy demand, Industrial Revolution, biosphere, energy technology,
territorial behavior, comparative psychology, animal behavior, prairie	fossil fuel cycle, carbon dioxide, industrial emissions, modification of natural cycles by man 1970 Sept p 174-190 [1197]
dogs, social behavior, innate behavior, learning behavior, field observation of prairie dog communities 1959 Oct p 128-140	thermal pressure, gravity, stellar evolution, space-time continuum,
animal behavior, population control, reproduction, homeostatic	gravitational collarse, singularity, gravitational radius, black note
population controls 1964 Aug p 68–74 [192]	1967 NOV P 88-30
aggression, rats, animal behavior, social behavior, natural history,	thermal radiation, convection currents, plants, thermoregulation, solar
Rattus rattus, Rattus norvegicus 1967 Jan p 78-85	radiation, transpiration, energy transfer, heat transfer in plant feaves 1965 Dec p 76-84 [1029]
communication, pheromones, rabbits, scent glands, pecking order,	thermal updraft, tornadoes, meteorology, radar tracking, weather
territorial marking by rabbit 1968 May p 116–126 [1108]	forecasting 1958 May p 31-37
tertiary structure, protein structure, protein synthesis, amino-acid sequence, peptide bond, hydrogen bonds, nature, diversity and	thormal wayes beat conduction phonon materials technology, thermal
function of proteins 1950 June p 32-41 [10]	conductivity, thermal properties of materials 1967 Sept p 180-188
tessellation, mathematics, geometry, topology, quinary system, decimal	heat, diffusion, solid state physics, second sound, cryogenics, wave
system, knots, primitive mathematics 1948 Dec. p. 44-49	propagation, phonon, helium, thermal waves in solid helium 1970 May p 92-101
tonology, shape, polygons, polyhedra, space-filling 1954 Jan p 58-64	thermionic emission, electronics, electron tubes, amplifiers,
test scores, intellectual resources of US, college graduates, doctorates	communication technology, rectifiers, electron optics, cathode-ray
1951 Sept p 42-46 testosterone, animal behavior, sex differences, hypothalamus,	tube communication power state of the technology
physiological psychology, sex hormones, pituitary hormones, sex	1950 Oct p 30-39
differences in rat brain, effect of testosterone	thermionic tube, rectification, radio, diode, Fleming, electron tube,
1966 Apr p 84~90 [498]	history of science, England, Edison, lamps, Deforest 1969 Mar p 104-112
sex hormone and behavior 1956 Oct p 71	thermocline, limnology, pond life, dissolved oxygen, plankton.
tetanus, bacterial toxin, botulism, paralysis, nerve impulse, inhibitory	hypotympion, oxidation-reduction balance in depths of a pond
inpulse, synapse, motor neuron, Clostridium tetani, Clostridium 1968 Apr p. 69-77	1951 Oct p 68-72
Dorumum G. Black Sea Mediterranean Sea sea level, geological history of	thermodynamics, communication, information theory, entropy
	heat pump, Carnot cycle, principles and applications of heat pump
totranstrole ring, chlorophyll, hemoglobin, cytochrome, respiration,	1951 May p 54-59
enzymes, tetrapyrrole virtuosity enzymes, tetrapyrrole virtuosity tetrapyrrole virtuosity enzymes, tetrapyrrole virtuosity tetrapyrrole ting, chiotophysic, tetrapyrrole ting, chiotophysic, tetrapyrrole virtuosity tetrapyrrole ting, chiotophysic, tetrapy	information theory, statistics, noise, redundancy, digital storage media.
tetrodotoxin, animal toxins, nerve conduction block, sautoxin, post-	analogue storage media, information compression, automatic
puffer fish, California newt	control, information 1952 Sept p 132-148 heat, quantum mechanics, entropy, equation of state, energy, black
Tewa Indians, Amerindian, Hopf Indians, 1957 June p 126-136	Ladinadanum temperature, What is heat? 1904 Sept. ti 38-03
Indians textile fibers, artificial fibers, natural fibers, spinning technology, yarn textile fibers, artificial fibers, natural fibers, spinning technology, yarn 1972 Dec p 46-56	synthetic diamonds, high pressure, carbon phases, states of matter
1972 Dec 10 40-30	1955 Nov p 42-46

tissue-typing, cell membrane, immune response, organ transplant, tissue grafts, self-marker hypothesis 1972 June p 28–37 [1251] titanium, ilmenite, metallurgy, properties and applications of titanium	topology, mathematics, geometry, quinary system, decimal system, tessellation, knots, primitive mathematics 1948 Dec. p 44-49 inner-tube eversion, Mobius band, Klein bottle, trefoil knot, Koenigsberg bridges, four-color-map problem, three-cottages
toad, animal behavior, escape response, neurophysiology, visual perception, visually guided behavior 1974 Mar p 34-42 [1293]	problem 1950 Jan p 18-24 Euler, Koenigsberg bridges, essay by Leonard Euler on the
tobacco, carcinogenesis, cigarette smoking, human physiology, lung	Koenigsberg bridges 1953 July p 66–71 shape, polygons, polyhedra, tessellation, space-filling
cancer, coronary disease, effects of smoking 1962 July p 39-51 tobacco mosaic virus, virology, mutation, amino-acid sequence	1954 Jan p 58-64
1955 July p 74–78 [59] virus, protein 'overcoat', nucleic acid 'core', dissociation and	mathematics, hexaflexagons, flexagon, flexigation, delight and depth of mathematics 1956 Dec p 162-166
reconstitution of infective particles 1956 June p 42-47	geometry, mathematics, non-Euclidian geometry, conic sections,
adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma	history and current uses of geometry 1964 Sept p 60-69 fixed point theorems, mathematics, surface deformation, contraction
virus, herpes virus, influenza virus, vaccinia virus, bacteriophage, structure of viruses 1963 Jan p 48-56	1966 Jan p 105–110
genetic code, RNA nucleotides, protein synthesis, amino-acid	mathematics, sphere, differential topology, torus, everted sphere proof
sequence, mutation, relation of RNA mutations to amino acid	1966 May p 112–120
changes 1964 Oct p 46–54 [193]	catastrophe theory, discontinuous phenomena, mathematical model
springs full blown? 1952 Nov p 44 TMV protein analyzed 1961 Jan p 79	1976 Apr p 65-83 toposcope display, electroencephalography, brain waves, alpha rhythms,
TMV protein analyzed 1961 Jan p 79 Tokomak, nuclear power, fusion reactor, plasma confinement, magnetic	medical diagnosis, Fourier analysis, automata theory
bottle 1972 July p 65–75	1954 June p 54-63
laser measurements 1969 Dec p. 51	tornadoes, radio observatory, Green Bank observatory, U.S. National
systems for fusion power 1975 Mar p 48	Radio Observatory 1956 Oct p 56-64
tomato harvester, mechanical harvesting, cotton picker, agricultural	meteorology, radar tracking, thermal updraft, weather forecasting 1958 May p 31-37
technology, hay cuber, cherry picker, grain combine 1967 Aug p 50-59	outbreak in U S 1975 June p 49
tombs, Scythian culture, Siberia, refrigerated tombs, archeology, Altai	tornadoes on radar, from start to finish 1953 Aug p 42
Mountains, cloth, leather and wood artifacts preserved by	tort law, decision theory, energy economics, power production,
refingeration 1965 May p 100–109	technology assessment, economic planning market process
tomography, computer algorithms, computer-assisted imaging, image reconstruction, computer graphics, medical care, CAT scan	1971 Sept p 191–200 [671] torus, mathematics, topology, sphere, differential topology, everted
1975 Oct p 56–68	sphere proof 1966 May p 112–120
tone ladder, musical scale, Pythagorean doctrine, music and mathematics,	touch, sensory perception, Pacinian corpuscle, olfactory receptors, taste
harmonic proportions, Kepler, vibrating string 1967 Dec p 92-103	receptors, mechanoreceptors, pain receptors, biological transducers
tones, Chinese language, Chinese writing, computer translation, Mandarin Chinese, Chinese dialects 1973 Feb p 50-60	1960 Aug p 98–108 [70] learning, sensory perception, vision, visual perception dominates touch
Mandarın Chinese, Chinese dialects 1973 Feb p 50-60 Tonga Trench, Pacific Ocean, earth crust, Acapulco trench, Cedros	1967 May p 96–104 [507]
Trough, ocean floor 1955 Nov p 36-41 [814]	
tonsils, adenoids, myriads of viruses 1954 Nov p 50	geotropism, phototropism 1955 Feb p 100–106
tool assemblages, stone tools, multivariate analysis, factor analysis, computer analysis, Paleolithic archeology, Bordes method, stone	touch, sensory perception, conditioned behavior, learning, long-term memory, short-term memory, lobotomy, octopus, correlation of
tools as fossils of behavior 1969 Apr p 70–84 [643]	brain structure and function in octopus 1965 Mar. p 42–50 [1006]
tool inventories, Solutrean culture, Upper Paleolithic hunting peoples,	Tower of Babel, Elamite culture, ziggurat, religion, Biblical archeology,
stone tools, France, 21,000 years ago 1964 Aug p 86-94	
tool-using, primate behavior, chimpanzee, social behavior, comparative psychology, observation of chimpanzees in the wild	towing tank tests, marine engineering, yacht design, hull design, sail design
1962 May p 128~138 [463]	
toolmakers, human evolution, evolution of behavior 1953 Dec p 65-72	status of new medical technology 1949 Aug p 26-35
human evolution, Olduvai Gorge, man-apes, hand axes, stone tools	diphtheria toxin, diphtheria toxoid, diphtheria antitoxin, cytochrome
1954 Jan p 66-71 man-apes, Olduvai Gorge, human evolution, cultural evolution, role of	antagonist 1952 Oct p 32–36 toxicology, antibiotics staphylococcus septicemia, antibiotic resistance,
tool-making in biological evolution of man, introduction to single-	oxidative phosphorylation, cause of death from staphylococcal
topic issue 1960 Sept p 62-75 [601]	infection 1968 Feb in 84_94
hand, human evolution, hominid, evolution of the human hand 1962 Dec p 56-62 [140]	toxins, acetylcholine, acetylcholinesterase, nerve gases, nerve poisons,
hominid, Olduvai Gorge, human evolution, foodsharing, evolution of	citric-acid cycle, alkaloids, lethal mechanisms at cellular level 1959 Nov. p. 76-84
behavior, evidence for protohuman behavior in two-million-year-old	bacterial infection, endotoxins, exotoxins, bacterial toxin, effects of
Sites 1978 Apr p 90–108 [706] Australopithecus prometheus 1955 Aug. p 50	endotoxins 1964 Mar n 36_45
Australopithecus prometheus 1955 Aug. p 50 bag carriers 1970 Jan p 52	y personally a manta phanoides though
human evolution, bones found near Olduvzi Gorge 1976 Oct p 57	to voplasmosis, parasitism, intracellular parasite infectious disease
tools, surgery, scalpels 1951 Nov p 62-66	encephalitis, insect vectors 1953 Feb p 86-92
agricultural revolution, Neolithic archeology, slash-burn agriculture, cultural evolution, Stone Age forestry and agronomy	trace elements, iron, manganese, zinc, copper, magnesium, iodine, human
1956 Mar p 36-41	nutrition 1953 Jan p 22-25 cobalt, desert ecology, land reclamation, vitamin B12 synthesis,
Polynesian culture, cultural evolution, language, settlement of South	agricultural technology, reclamation of infertile Austrialian land
Sea Islands, origin of Polynesians 1986 Aug p 58-77 tooth enamel, caries, dentistry, bacteriology, causes of tooth decay	1050 Inn p 07 106
1957 Dec. p. 109~116	nucroanalysis, neutron activation, radionuclides, decay properties
(opographic microscope, microscopy 1954 Aug p. 54-50	
topography, ocean floor, Aleutian Trench, seamounts, fathogram sonar,	110111 003101311 111105
topological isomer, catenane, chemical topology, or che molecules	dates chemistry, tritium, cosmic radiation, lithium, nuclear reactor,
molecular structure, ring molecules, linking and knotting of ring	tracer experiments, photographs, white a shipped in 1954 Apr p 38–40
molecules 1962 Nov p 94-102 [286	tracer experiments, photosynthesis, chlorophyll, carbon dioxide, water
	1948 Aug p 24–35

thymine dimer, DNA replication, ultraviolet radiation, mutation rate,	DIFIN CHARMAN CNE
radiation damage, repair of DNA 1067 Fab = 26	parity, symmetry, CPT mirror, mirror images 1965 Dec p 28-36 [30]]
thymus, antibody production, immunology, lymphocytes, DNA, autoimmune disease, thymus role in producing antibodies	antigravity, CPT symmetry, antimatter, probability, philosophy of
1962 Nov p. 50-57 113	Science 1967 Ian p 98–108
antibodies, lymphatic system, immune system, lymphocytes, thymus	Conservation proton spin appearments in time an and
antibodies, bursa, cell differentiation, humoral immunity, B-cells, I-	1969 Oct p 88-101
cells, inimune system, lymphocytes 107.4 May 5 5 77 1170.	arrow of time, entropy, information theory, hierarchy of simetures
thyroid, gotter, metabolism control, thyroxin, pituitary gland, role of	fitte reversal invariance K mason deservation 1975 Bec p 50-07
digital in governing melabolism 1960 Mar n. 110-12	
calcutonin, metabolism, calcium metabolism, bone, human physiology, hormone, recognition and characterization of calcitonin	time-sharing, man-machine interface, computer technology, multipe
1970 Oct p. 42-50	terminals, multiple users 1966 Sept p 128-140
gotter, hypothyroidism, todine deficiency, epidemiology, todized salt	1061 Mar n 91/106
1971 June p 92-101 [1223 thyroid hormone, tadpole, frog, amphibian metamorphosis, chemistry of	time standard, cesium clock, length standard, mass standard, temperature
amphibian metamorphosis 1963 Nov p 110–118 [170	standard, interferometry, measurement 1968 June p 30-62
thyroid-stimulating hormone, ACTH, hormone, sexual characteristics	time symmetry, see CPT symmetry tin, elements, living matter, essential elements, metallo-enzymes, fluorine,
growth, follicle-stimulating hormone, prolactin, androgens,	silicon, vanadium, list of elements essential to life lengthened to 24
estrogens, secondary sexual characteristics, human physiology, endocrine system, chemical integrators of the body	1972 July p 52-60
1957 Mar p 76-88 [1122]	Tiros, weather satellites, telemetry, atmospheric circulation, heat budget of Earth, air masses, videocameras, photographic weather maps,
hormone, hypothalamic hormone, luteinizing hormone, neurohumoral	weather forecasting 1961 July p 80-94
factors, pituitary control, TSH 1972 Nov. p 24-33 [1260] thyroidectomy, conditioned reflex, neurosis, operant conditioning,	
Pavlov, psychology, stress, emotional behavior, neurosis, conditioned	metabolism in human physiology 1959 Dec p 70-76 tissue culture, cancer, tissue grafts, medical diagnosis, cancer tissue grows
reflex is shown to be a neurosis 1954 Jan p 48-57 [4]8]	in heterologous graft 1948 Dec p 40-43
thyroxin, gotter, thyroid, metabolism control, pituitary gland, role of thyroid in governing metabolism 1960 Mar p. 119–129	plant tissue grafts, plant hormones, dedifferentiation of plant cells,
thyroid in governing metabolism 1960 Mar p 119-129 actinomyosin, ecdysone, cortisone, insulin, estrogens, gene activation,	plant growth requirements 1950 Mar p 48-51 poliomyelitis virus, rhesus embryo, serial passage, polio vaccine, tissue
RNA synthesis, aldosterone, growth hormone, ACTH, mechanism of	culture of virus opens way to vaccine 1952 Nov p 26-29
hormone action 1965 June p 36–45 [1013]	(0.65
amphibian, metamorphosis, frog, pituitary gland, hypothalamus, neurosecretory system, hormone, chemistry of amphibian	clone, HeLa cancer cells, cell culture, somatic cells, single human cells
metamorphosis 1966 May p 76-88 [1042]	1957 Aug p 91–100 [23]
Tibetan plateau, mountain formation, continental drift, earthquake zones,	enteroviruses, poliomyelitis virus, Coxsackie virus, echo viruses,
Gobi Desert, Himalaya formation, India-Eurasia collision, plate tectonics, sea-floor spreading 1977 Apr p 30-41	epidemiology, benign and infectious intestinal viruses 1959 Feb p 88-97
ticklishness, explored in controlled experiment 1971 July p 45	embryonic development, tissue differentiation, dissociated cells,
tidal effects, stellar evolution, gravitation effects, contact binaries, binary	reassembly of dissociated tissue cells common cold, virus disease, 20 strains cultured 1959 May p 132-144 1960 Dec p 88-102
stars, stellar fission 1968 June p 34-40 tidal energy, energy consumption, energy resources, fission fuels, power,	meioris mitoris plant cell differentiation clone, generation of Whole
fossil fuel, fusion fuels, geothermal energy, solar energy	organism from tissue cell (carrot) 1963 Oct p 107-115
1971 Sept p 60-70 [663] tidal rhythms, biological clock, crabs, diatoms, marine algae, sand	cell differentiation, embryonic development, pancreas, mesoderm, endoderm 1969 Mar p 36-44 [1136]
hoppers, tidal-zone organisms, integration of biological and sidereal	cancer, SV40 virus, gene transformation, chromosome mapping
cycles 1975 Feb p 70–79 [1316]	somatic cells, hybrid cells, genetics of human cancer 1978 Feb p 117-125 [1381]
'tidal' waves, tsunamıs, earthquakes 1954 Aug p 60–64 Pacific Basin warning system 1960 Oct p 88	and using calls to grow 1956 Feb p 30
tidal-zone organisms, biological clock, crabs, diatoms, marine algae, sand	industrial technique
hoppers, tidal rhythms, integration of biological and sidereal cycles	tumor tissue, 'nude' mice in tumor tissue culture 1978 May p 66 see also plant tissue culture, cell culture
1975 Feb p 70-79 [1316] tides, day's length, Earth-Moon system, lunar orbit, moon	ticero differentiation, insect metamorphosis, nivenile hormone, cellular
1972 Apr p 42–52	specialization in insect development 1959 Feb p 100–110 [63] embryonic development, tissue culture, dissociated cells, reassembly of
tilapia, fisheries, aquaculture, proteins, food, pond culture 1963 May p 143-152	dissociated tissue cells 1909 May p 132-11.
tilth, soil conditioners, humus, polyacrylates, polyvinylites, cellulose	cell aggregation, cell 'recognition', cytology, embryonic development,
1953 Aug p 36–38	ticene grafts, cancer, ussue culture, medical diagnosis, cancer tissue grows
time, measurement, Brownian motion, velocity, uncertainty principle, Planck's constant, limits of measurement 1950 July p 48-51 [255]	in heterologous graft 1948 Dec. p. 40-45
Pythagorean theorem, special relativity, clock paradox	bacterial infection, blood proteins, gammaglobulin, antibodies, immunology, agammaglobulinemia, hereditary immunological
1963 Feb p 134-144 calendar, solar system, planetary motion, heliocentric theory, year,	deficiency 1957 July p 93-104
astronomy, Copernicus, astronomy, Copernicus, length of calendar	hamster, immune reaction, tolerance of grafts 1963 Jan p 118-127 [148]
year 1900 Oct p 85-70	cell membrane immune response, organ transplant, tissue-typing, self-
atomic standard	marker hypothesis 1972 June p 28-37 [1251] embryonic tissue 1958 Apr. p 52
	secured by histocompatibility gene 1960 Aug p 75
jumps, quantum electrodynamics, foundation of massi, fasti	and online graft rejection 1901 MdV P 70
technology Galileo's experiments, gravitational acceleration, music as time 1975 June p 98-104	treezing of living cells 1956 June p 105-114
measure	tissue specialization, embryonic development, cell differentiation,
time perception, biological clock, temporal relation 1964 Nov. p. 116, 124 interrelation, kappa movement effect 1964 Nov. p. 116, 124 interrelation, propagation reactions, probability against it in	11 1 constant tamphrish' chromosome, embryonic development.
time reversal, symmetry, reversible research 1056 Aug n 107-114	zygote, fertilization, ovum, clone, cytology, how cells specialize 1961 Sept. p. 124-140
macroscopic world	in in the property of the second of the seco

traumatic shock, shock, capillary bed, electrolyte bala	nce, cardiovascular	tritum in nature, rarest isotope	1950 Nov p 26
system, blood transfusion	1952 Dec p 62-68	tRNA: transfer ribonucleic acid tRNA, ribosome, protein synthesis, DNA, mR	NA nucleus chromosome
salt-water treatment	1950 Dec p 29 1970 Mar p 64	cytology, how cells make molecules	1961 Sept p 74-82 [92]
traveler's diarrhea, Escherichia coli alien strain traveling-wave accelerator, linear accelerator, electron		mRNA, genetic code, DNA, ribosome, prot	
internal drift-tube accelerator 1954	Oct p 40-44 [234]	elucidated, amino acid 'dictionary'	1963 Mar p 80-94 [153]
traveling-wave tube, microwaves, optical properties, M	faxwell's equations,	RNA, nucleic acid, nucleotide sequence, ala	nıne, enzyme cleavage,
klystron, magnetron, waveguides, communication	n, radar	fragment assembly, first nucleotide seque	
	1952 Aug p 43–51	amino acids, protein synthesis, formylmethi	1966 Feb p 30–39 [1033]
tree cloning, city trees, pollution effects, ailanthus, gu	976 Nov p 110–118	initiation of protein synthesis	1968 Jan p 36-42 [1092]
Norway maple tree farming, resource management, gene manipulation		gene transcription, protein synthesis, molec	
techniques, forestry, Southern pine, seed-orchard	d concept	of tRNA	1978 Jan p 52-62 [1377]
	1971 Nov p 94–103	nucleotide sequence for alanine tRNA	1965 May p 48
tree growth, insecticide	1952 May p 36	crystallographic RNA-structure study trophallaxis, insect behavior, social insect, arm	1969 Mar p 50
tree-ring dating, see dendrochronology tree structure, auxins, adaptation, trees, plant hormo	nes av-head model	psychology, reproduction, feedback, pher	
mechanical design of trees	1975 July p 92–102	philosophy of science, anthropomorphism	n 1948 June p 16–23
trees, aphids, sap circulation, phloem, xylem, use of a	aphids to measure	trophoblast, fetus as transplant, histocompata	bility, immune response,
forces in sap flow 1963 N	Mar p 132–142 [154]	immunological privilege, reproduction, n	
ecology, forest succession, leaf distribution 1975	May p 90–98 [1321]	tropical agriculture, animal husbandry, ecosys	1974 Apr p 36–46
auxins, adaptation, plant hormones, tree structure,	, ax-nead model, 1975 July p 92–102	agricultural system, power, New Guinea	iem, energy cycle,
mechanical design of trees trefoil knot, topology, inner-tube eversion, Mobius b			1971 Sept p 116-132 [666]
Koenigsberg bridges, four-color-map problem, t	hree-cottages	tropical climate, agricultural production, equa	torial rain forests,
problem	1950 Jan p 18–24	laterization, developing countries, lateriti	
trench faults, ocean floor, East Pacific Rise, subterra	nean heat flow,	turned flow coal foral flore Mississipping	1964 Nov p 96–102 [870]
earthquakes, convection currents	1961 Dec p 52-61	tropical flora, coal, fossil, flora, Mississippian period, Carboniferous period, deposition	
triage, medical care, medicine, physical incapacitation mortality rates, hospital care, ambulatory care,	health insurance.	tropical medicine, Anopheles mosquito, malar	
introduction to single-topic issue on medical car		epidemiology, W H O malaria eradicatio	
	1973 Sept p 22-33	tropical rain forest, Amazon, developing coun	
hospital care, medical care, in-patient care, out pa		economic planning, forest management, in power, the Amazon frontier	
technology, medical history Trassic period, continental drift, plate tectorics, sca	1973 Sept p 128–137	strangler trees, ecology, evolution	1948 May p 11–14 1954 Jan p 78–80
floor spreading, Earth crust, Pangaea, computer	r modeling,	economic development, industrialization, tr	
supercontinents, breakup of Pangaea traced		subsistence economy, urbanization, resou	
	70 Oct p 30-41 [892]	uneven national development	1963 Sept p 208-220
tribal cultures, hunting, herding, food gathering, agr		economic development, industrialization, si tropical rain forest, urbanization, resource	ibsistence economy,
aboriginal culture, India, 'living prehistory' in I	1967 Feb p 104-114	uneven national development	1963 Sept p 208–220
tribal politics, industrial technology, Nigeria, econor		rain-forest ecosystem, slash burn agricultur	
technology transfer, economic development of	former colonial	fungal hyphae	1973 Dec p 58-67 [1286]
	1963 Sept p 168–184	tropocollagen, collagen, proline, hydroxyproli	
tribes, 'national character', cultural anthropology trichinosis, in US garbage	1973 Dec p 56	connective tissue, nature and properties of	1961 May p 120–130
trickle irrigation, drip irrigation, irrigation, agriculti	ural technology	tropomyosin, ATP, actin, myosin, actinomyos	in, muscle contraction.
1977	Nov p 62–68 [1371]	troponin, calcium, microstructure of mus	cle filament and
Trident, arms race, missile submarines, SLBM, MI		biochemistry of contraction	1974 Feb p 58-71 [1290]
missile 19 triode, solid state physics, transistor, vacuum tube,	72 June p 15–27 [344]	actin, muscle contraction, muscle fibril, pro myosin, calicum in muscle	
germanium, diode, dawn of solid-state electron		troponin, ATP, actın, myosın, actınomyosın, r	1975 Nov p 36–45 [1329]
	1948 Sept p 52-55	tropomyosin, calcium, microstructure of	muscle filament and
Junction transistor, germanium crystal, 'doping'	1952 July p 28-32	biochemistry of contraction	1974 Feb n 58-71 (1290)
radio, De Forest, vacuum tube, Marconi, Flemin rectification, De Forest's 1906 contributions	g valve, diode, 1965 Mar p 92–100	actin, muscle contraction, muscle fibril, pro myosin, calicum in muscle	tein switch, tropomyosin,
triplet state, light-matter interaction, photochemist	ry, flash photolysis,	troposphere, communication technology, radi	1975 Nov p 36-45 [1329]
ultraviolet light, photolysis photoreduction, p	hotooxidation, dye	transmission, ionospheric and tropospher	ac scattering
Prinlete and I was a	1968 Sept p 158-170		1957 Jan p 46-51
triplets, amino acids, DNA, protein synthesis, gene molecular biology, RNA, anticodon, ribosome	tic code, mutation,	aerodynamics, air pollution, microclimate, i	nicrometeorology, fluid
hypothesis 196	66 Oct p 55-62 [1052]	dynamics, meteorology, turbulence, atmothe ground	
tripsacum, corn, genetics, teosinte, pod corn, popco	orn, hybrid cells, New	trout, stream ecology, mortality, population co	1964 Oct p 62–76 ontrol, moral keep the little
World archeology, plant genetic experiment at	nd archeological finds	ones and let the big ones go	1953 May n 81-86
point to pool corn as wild ancester of maise trisomy 21, epidemiology, stress, anoxia, pregnance	Down's syndrome	lamprey, jawless fish, pest control, Great La	
etiology of Down's syndrome	1952 Feb p 60-66	trumpet bell, musical instruments, physics of l	1955 Apr p 36-41
Down's syndrome, chromosomal anomalies, Kli	nefelter's syndrome,	pipe	1973 July n 24 25
genetic defect, meiosis, mitosis, gene transloca afflictions associated with abnormal chromosi	ition, nondisjunction,	trumpet pipe, musical instruments, physics of	brasses, horn flare, trumpet
10	161 Nov. p. 66-76 [150]	bell trumpeter swan, out of danger	1973 July p 24-35
Triticale, grain, proteins, plant protein, plant hybr	ids, agronomy	truss bridge, wind bracing, skyscrapers, constr	1969 Feb p 46
	1974 Aug n 72_80	Tower, cantilever, steel frame construction	n, curtain wall
tritium, cosmic radiation, lithium, nuclear reactor, chemistry	1954 Apr n 38_10		1074 E.L 03 105
fusion reactor, nuclear power, magnetic bottle, r	plasma confinement,	truth, grammar, logic, philosophy, sentence, n proof, antimony of the liar, proof and tru	ietalogic, mathematical
deuterium, magnetic pumping, stellerator	1958 Oct p 28-35	proof and tru	th 1969 June p 63-77

bacteriophage, genetics, reproduction, DNA, p	rotein coat		
	1953 May p 36-2	integrated circuits, metal-oxide semiconduct	ors, microelectronics,
tracer isotopes, for mapping the pancreas	1056 Tuto - 4	in contract compa	1973 Aug. p 48-57
tracheal system, insect physiology, underwater br	eathing, insect breathir	or the state of th	emiconductors,
	1053 Eab - 20 1	microelectronics, semiconductor technolog	
tracheostomy, acute respiratory failure, intensive	care hing alveolve		1977 Sept p 70-81 [375]
conapse, emphysema, pathogenesis and treat	ment of acute	off the shelf	1952 June p 38
respiratory failure	1969 Nov n 22 2	in hearing aids	1903 Feb p 40
traclionia, eye disease, virus disease, vaccination, o	enidemiology		1953 June p 48
immunization	1964 Jan p 79-8	new 'surface barrier'	1954 Feb p 47
track detectors, streamer chamber, linear acceleration	tor nulsa agraestes		1955 July p 52
new particle detector	ior, pulse generator,	high-frequency oscillator	1955 Oct p 48
tracking station, artificial satellite, orbital motion,	1967 Oct p 38-4		1957 Sept p 110
exploration, Sputnik, first artificial Earth sate	satenite, space	transistor oscillator, in megacycle spectrum	1952 Aug p 38
suprotonom, oputing, mot artificial Earth Sale		transition boiling, boiling, hourds, heat transfer.	nuclear boiling, film
artificial catallity arbital marine and a	1957 Dec p 37-4	boiling	1954 June p 64-68
artificial satellite, orbital motion, interferometry astronomy, satellite tracking	, antennae, radio	transmission electron microscope, microscopy, so	canning electron
trade Obsidian trace alamanta Nantal and a de-	1958 Jan p 23-25	microscope, light microscope, three-demens	nonal pictures by
trade, obsidian, trace elements, Neolithic archeolog	gy, Neolithic trade	scanning electron microscope	1972 Jan p 54-69
pattens deduced from obsidian finds	1968 Mar p 38-46	transmission lines, electric power, superconductor	ors 1972 Apr p 84-91
Arabia, irrigation, Near East, frankincense, myri	th, Biblical archeology,	transmitter molecules, nerve conduction, symanse	reflex arc, motor
cultures of southern Arabia 19	969 Dec p 36-46 [653]	neuron, membrane potential, inhibitory imp	ulse, nerve excitation,
trade deficit, economic development, European eco	onomy, Economic	activity at the neural synapse 1	965 Jan p 56-66 [1001]
Commission for Europe, East-West trade, ind	ustrial reconstruction	transmitters, communication terminals, computer	r technology.
	1948 July p 9-15	communication technology, communication,	microwave relays.
trade wind clouds, climate, atmospheric circulation	, cumulus clouds,	receivers	1972 Sept p 130-140
ocean-atmosphere interface	1953 Nov p 31-35	transmutation, alchemy, philosopher's stone, scien	ace history
trademarks, information theory, painting, sculpture	e, architecture, visual	pratosopher o stone, some	1952 Oct p 72-76
communication, communication, language, vis	sual stimulus, visual	transparency, spectroscopy, materials technology,	color, photoelectric
signals 19°	72 Sept p 82-96 [548]	effect, laser, optical properties of materials	1967 Sept p 238-248
traffic, shantytowns, Calcutta, cities, urbanization,	caste, housing,	color fusion, color scission, perceptual transpare	
poverty, Calcutta, a city of the poor	1965 Sept p 90-102	transparency, optical illusion, visual perception	
queues, mathematics, operations research, compi	ster time sharing.]	974 Apr p 90-98 [559]
	1968 Aug p 96-103	transpiration, convection currents, plants, thermor	egulation, solar
traffic accidents, statistics	1976 Jan p 62	radiation, thermal radiation, energy transfer, l	neat transfer in plant
traffic patterns, railway, cities, commutation, mass t	transit, automobile.	leaves 196	55 Dec p 76-84 [1029]
transportation, Bay Area Rapid Transit system	as model for urban	water cycle, evaporation, runoff, agricultural sys	tem, ocean,
	1965 Sept p 162-174	precipitation, biosphere, photosynthesis 1970	Sept p 98-108 [1191]
traffic safety, causes of traffic accidents	1957 Aug p 58	transport mechanisms, plant nutrition, plant roots,	root pressure, son
traffic theory, mathematical model, vehicular traffic		minerals 197	3 May p 48-58 [1271]
transport, modeling auto flow patterns	1963 Dec p 35-43	transportation, iron ore, coal reserves, steel markets	changing geography
transusion hepatitis, antibodies, hepatitis A, hepatiti		of steel	1952 Jan p 44-33
Australian antigen (B), viral structure, viral disc	ease	railway, traffic patterns, cities, commutation, mas	ss transit, automobile,
	7 July p 44-52 [1365]	Ray Area Ranid Transit system as model for un	rban transportation
ranguilizers, psychoactive drugs, chlorpromazine, re			1965 Sept p 102-117
and the second s	1955 Oct p 80-86	wheeled vehicles, oxen, carts, wagons, Transcauca	isus. Mesopotamia,
barbiturates, hypnotics, sedatives, anesthesia, pha		origin of wheeled transport 5,000 years ago	1968 July p 02-70
our orientation, respiration, outlier, ou, amountoines, principal	1958 Jan p 60-64	electromagnetic flight linear induction motor, line	ear synchronous
clinical indications, patient tolerance	1957 Jan p 67	motor, 'magneplane' vehicle, magnetic levitation	n, superconductors
reduces stress syndrome	1957 Aug p 62		1973 Oct p 17-25
rans-Pacific contact, Olmec, Mexico-Shang, China	1975 May p 44	barge transport, canals, technology history, in U S	446 124
Franscaucasus, transportation, wheeled vehicles, oxe			1976 July p 110-124
Mesopotamia, origin of wheeled transport 5,000	years ago	transportation industry, airport, air traffic control, rai	dar
, , , , , , , , , , , , , , , , , , , ,	1968 July p 82-90		1960 Dec p 47-55
ranscendental meditation, blood pressure, human ph	ysiology, autonomic	transuranum elements, periodic table, 'synthetic' elem	nents, table of
nervous system, yoga, Zen Buddhism, physiolog		elements, stable isotopes, isotopes, first of a serie	s of articles,
	Feb p 84-90 [1242]	recounting the completion of the table of elemen	is (43 [techniculum
ransdetermination, cell culture, cell differentiation, la	arvae, fruit fly	61[promethium], 85[astatine] and 87[francium]) a	na the titst tive
1968 No	ov p 110-120 [1127]	transuranic elements (93[neptunium], 94[plutoniu	Apr p 38-47 [242]
ransfer ribonucleic acid, see tRNA		96[curium] and 97[berkelium]) 1950	Apr p 30-47 (****
ransferable drug resistance, bacteria, drug resistance,	mutation, DNA R-	californium, table of elements, einsteinium, fermium	L Synthene
factor, antibiotics, multiple resistance	1967 Dec p 19-27	elements, mendelevium, radioactive decay, period	Dec p 66-80 [243]
hacteria antibiotics	1966 Feb p 53	uranium fission, nuclear fission, fission products, 'sy	othetic' elements,
ransformation, see gene transformation, cell transfor	mation, energy	radium isotropy, science history discovery of fissi	ion
tenneformation and the like		radium isomopy, science instory discovery or inst	1958 Feb p 76-84
ransformation-induced plasticity, materials technology	7, steel, strength,	'synthetic' elements element 103 lawrencium high f	lux isotope
disatilitie	TANK TANK D 20-42	reactor heavy-ton linear accelerator periodic table	e at 103
ransistor, solid state physics, vacuum tube, electronics	1948 Sept p 52-55	}	1963 Apr p 68~18
t i i i i i i i i i i i i i i i i i i i	1740 Noby b am am	alpha decay isotopes, nuclear stability, beta decay, ra	idioactive decay.
junction transistor, vacuum tube, electronics, compu	1951 Aug p 13–17	'synthetic' elements, periodic table the 'superheavy	elements
		heyand 103	969 Apr p 36-6/
junction diode amplifiers, amplifiers, sound reprodu	59 June p 118-129	'synthetic' elements element 97	1950 Mar p 28
circuitry, noise	microelectronics,	'synthetic' elements, nobelium	1958 July p 49
integrated circuits, electronic components massay,	1965 Nov p 56-70	'synthetic' elements, element 103 trapped radiation, interplanetary space, Mars, Mariner 4,	1961 June p 84
silicon chips	emiconductors,	micrometeorites, atmosphere, solar wind, cosmic rac	hation, space
microelectronics, large-scale integrated circuits, lo	gic circuits		66 May p 62-72
microelectromes, and	1970 Feb p 22-31	exploration	

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Tycho's supernova, supernovae, Chinese starcharts, Kepler's supernova,	ultraviolet radiation, light, photoreactivation, visible light reactivates
'guest stars', the seven observed supernovae 1976 June p 100–107	organisms killed by ultraviolet 1951 May p 22–25
Tyndall spectra, light scattering, photometry, molecular size, aerosol,	interstellar matter, cosmic dust grains, hydrogen 1955 Nov p 72–80 microscopy, 'flying spot' microscope, ultra-microscopy of living cells
hydrosol, measurement 1953 Feb p 69–76 typhoons, hydrosols, measurement 1954 June p 32–37	1958 May p 38–43
typhoons, hurricanes, radar, meteorology 1954 June p 32–37 typhus, rickettsiae, chick-embryo culture, Rocky Mountain spotted fever	Sun, balloon astronomy 1959 May p 52–59
typhus, ficketisiae, cinck-emotyo culture, kocky Mountain spotted feter	telemetry, Sun, astronomy, rocket-borne instrumentation
Chaga's disease, public health, 'zoonoses', parasitism, trypanosomiasis,	1959 June p 52-59
malarıa, filarıasıs, leishmaniasıs, plague, yellow fever, epidemiology,	Sun, solar eclipse, ionosphere, solar flares, chromosphere, Earth-Sun
animal infection and human disease 1960 May p 161-170	chromosphere-ionosphere interaction 1962 Feb p 50–59
typography, computer-generated characters 1966 Jan p 51	atmospheric tides, ozone, Earth, ultraviolet-radiation hypothesis
tyrosinase, ceruloplasmin, hemocyanin, oxygen transport, enzymes,	1962 Dec p 48–55
copper deficiency, cytochrome oxidase, copper biochemistry,	DNA, mutation, effects of ultraviolet on weakest links in chain 1962 Dec p 135–144 [143]
Wilson's disease 1968 May p 102–114	Clouds of Magellan, galaxy, stellar evolution 1964 Jan p 32–41
	crystallography, laser, light refraction, nonlinear optics, light
7 T	interactions, photon 1964 Apr p 38–49
U	nebulae, Orion nebula, stellar evolution, hydrogen density, dating
_	interstellar bodies 1965 Feb p 90–101
Uganda, animal husbandry, Karimojong, cattle, subsistence herding	DNA replication, mutation rate, radiation damage, thymine dimer,
1969 Feb p 76–89	repair of DNA 1967 Feb p 36-43
Ukraine, glaciation, Ice Age hunters, mammoths, Mousterian	cancer, melanocytes, suntanning, epidermis, skin, vitamin D
assemblages 1974 June p 96–105 [685] ulcer, stress, psychosomatic illness, 'executive monkey' experiment	1968 July p 38–46 artificial satellite, ultraviolet astronomy, Sun, spectroheliograph
1958 Oct p 95-100	1969 June p 92–102
cryotherapy 1962 July p 74	air pollution, rickets, vitamin D, osteogenesis, calcium metabolism,
ultra-high pressure, artificial diamonds, lithosphere, coesite, borazon,	epidemiology, sunlight 1970 Dec p 76–91 [1207]
properties of matter under 2×10^6 p s i 1959 Nov p 61–67	ultraviolet sky, rocket operations 1959 Feb p 64
ultra-high speed rotation, ultracentrifuge, angular momentum, magnetic	umbilical cord, placenta, fetus, anatomy and physiology of the umbilical
flotation, molecular weight determination, 90 million r p s	cord 1952 July p 70–74
1961 Apr p 134–147 ultra-high vacuum, spectroscopy, vacuum, oil diffusion pump, sputter-ion	U.N.: United Nations U.N., arms control, role of U N in resumed negotiation of arms control
pump, cryogenic pump, mass, vacuum down to 10 12 mm of mercury	1950 Jan p 11–13
1962 Mar p 78–90	U.N. Atomic Energy Commission, disbands 1948 June p 25
ultra-microchemistry, plutonium, embryonic development, cytology,	U.N. technical agencies, human nutrition, population, food production,
chemistry, isolation of plutonium established a new research	FAO, 'the food problem' 1950 Aug p 11–15
technology 1954 Feb p 76–81	uncertainty principle, measurement, Brownian motion, time, velocity,
ultracentrifugation, density-gradient, separation techniques 1965 Aug p 70–76	Planck's constant, limits of measurement 1950 July p 48–51 [255]
ultracentrifuge, molecular weight, sedimentation, fractionation, oil drive,	games theory, decision theory, probability, pure strategy, card games illustrate theory 1951 Jan p 44-47
air drive, magnetic suspension, 900,000 g, 60 million r p m	philosophy of science, wave-particle duality 1958 Jan p 51–57 [212]
1951 June p 42–51	gravitation, wave-particle duality, relativity theory, quantum
angular momentum, ultra-high speed rotation, magnetic flotation,	mechanics, space-time continuum, P A M Dirac view of physics
molecular weight determination, 90 million r p s	1963 May p 45–53
1961 Apr p 134–147 ultradense matter, gravitational collapse, neutron stars, pulsar, stellar	'uncontrollable' expenditures, medical care, health statistics, medical-cost control, national health insurance, U S Federal expenditure on
evolution, solid stars, white dwarfs 1971 Feb p 24–31	medical care 1971 Apr p 17–25
ultrafast phenomena, Kerr gate, laser mode-locking, molecular motion,	undecidable questions, antinomy, paradox, mathematical logic, logic
quantum mechanics, Raman clock, picosecond molecular processes	barber paradox, Godel's proof, Grelling's paradox, Epimenides'
1973 June p 42–60	paradox, Zeno's paradox, paradox and foundations of logic
ultrasonic signal, sonar, bat sonar, animal navigation, bat navigation demonstrated in laboratory 1950 Aug p 52-55	Godel's proof motel-see with 1962 Apr p 84–96
ultrasonic transducer, piezoelectricity, quartz, crystal structure, nature	Godel's proof, metalogic, mathematical logic 1971 Mar p 50-60 algorithms, computer science, Koenigsberg bridges, polynomial-time
and uses of piezoelectricity 1949 Dec p 46-51	problems, exponential-time problems, efficiency of algorithms
ultrasonic waves, sound waves, communication technology, crystal	1978 Jan n 96-109 (395)
surface waves, electronic equipment, Rayleigh waves, signal	underground nuclear explosions, atomic explosions, 'Plowshare', Rainier
processing 1972 Oct p 50–68	explosion, search for constructive use for nuclear explosions
ultrasonics, interferometry, emulsification, nondestructive testing, sonar 1954 May p 54-63	1958 Dec p 29–35
kılomegacycle waves, sound waves, acoustic waves at optical	arms control, seismology, atomic bomb test, how to detect underground weapons tests and distinguish from small earthquakes
wavelength 1963 June p 60–68	1962 June p 55–59
medical diagnosis, optics, echo-sounding, computer-assisted imaging,	earthquakes, atomic test ban, atomic bomb test, seismology, arms
sonar, imaging internal organs by ultrasound	control, detection and discrimination of underground atomic
1978 May p 98-112 [1389] ultrasound, sonar, bats, predator-prey relationship, moths, auditory	weapons tests 1966 July p 19–29
perception, moth sonar detection of bat ultrasound	arms control, atomic test ban, seismology, technology for verification of underground nuclear test ban 1972 Jan p. 13-23 (3.43)
1965 Apr p 94–102 [1009]	of underground nuclear test ban 1972 Jan p 13-23 [343] arms control, atomic test ban, 'fireball blackout', EMP effect, strategic
ultrastrong magnetic fields, high pressure technology, magnetism,	weapons 1972 Nov. p. 15, 22 (2.42)
explosive compression, implosion, flux compression	Earth core, earthquakes, seismic waves, fine structure of Earth's
1965 July p 64-73 ultraviolet astronomy, artificial satellite, ultraviolet radiation, Sun,	1973 Mar p 24–33 [906]
spectroheliograph 1969 June p. 92_102	suspension proposed in U.S. Congress 1072 A
ultraviolet sky	under ground transport, mass transit phenmatic propulsion, solling
ultraviolet light, light-matter interaction, photochemistry, flash	gravity propulsion, transport by 'pedulum' train 1965 Aug p 30-40 underwater archeology, Classical archeology, commerce, Roman empire,
photolysis, photolysis, triplet state, photoreduction, photoexidation, dye	1051 Mar. 00 404
1968 Sept p 158–170	Lake Amatitlan, Maya civilization, 500 B C Guatemala

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'truth' drugs, psychoanalysis, psychoactive drugs, psychiatry, emotional
                                                                                    tunnel of Eupalinus, Samos, Greek civilization, Classical archeology,
       illness, chinical use of psychoactive drugs
                                                                                         water supply, feat of Classical engineering
                                                                                                                                        1964 June p 104-112
                                                  1960 Mar p. 145-154 [497]
                                                                                    tunneling, excavating machines, rock borers, earth-moving, surface
  trypanosomiasis, Chaga's disease, public health, 'zoonoses', parasitism,
                                                                                         mining, mining
       malaria, filariasis, leishmaniasis, plague, yellow fever, typhus,
                                                                                                                                         1967 Nov p 74-85
                                                                                      ground water, irrigation, aqueducts, Iran, underground system, 300
       epidemiology, animal infection and human disease
                                                                                         years old, still in use
                                                                                                                                         1968 Apr p 94-10)
                                                        1960 May p 161-170
                                                                                    turbidity currents, ocean floor, submarine canyons, continental shelf,
 trypsin, proteins, peptide bond, zymogen, proteolytic enzymes,
                                                                                         submarine avalanches and topography of ocean floor
      hydrolysis, enzymes, structure and function of protein-digesting
                                                                                                                                         1956 Aug p 36-41
       enzymes
                                                          1964 Dec p 68-79
                                                                                      sandstone, sand dune, granite, weathering, stratigraphy, sand ongin
    catalytic proteins, enzyme action, protein-cutting enzymes, proteolytic
                                                                                        and history from shape of grain
                                                                                                                                        1960 Apr p 94-110
      enzymes, serum proteins, chymotrypsin, elastase
                                                                                   turbine blade design, electric power generation, ship propulsion, steam
                                                    1974 July p 74-88 [1301]
                                                                                        turbines, construction of turbines, applications, history
    enzyme activity at low temperatures
                                                              1966 Dec p 65
                                                                                                                                       1969 Apr p 100-110
 tryptophan, brain function, carbohydrate, neurotransmitters, serotonin,
                                                                                   turbine bucket, heat, materials, temperature limits, ablation, rocket
      human nutrition, feedback
                                                   1974 Feb p 84-91 [1291]
                                                                                        nozzle, high temperatures materials
                                                                                                                                       1954 Sept p 98-106
 tryptophan-niacin relation, neurospora, mutation, natural selection, gene
                                                                                   turbulence, nebulae, galaxies, galactic clusters, hierarchy of turbulence in
      expression, Mendelian inheritance, genetic disease, one gene-one
                                                                                       space
                                                                                                                                        1952 June p 26-30
      enzyme hypothesis, selection for defect
                                                      1948 Sept p 30-39 [1]
                                                                                     boundary layer, airfoil, laminar flow, aerodynamics
 Tschudi engine, automobile engines, Wankel engine, rotary engine
                                                                                                                                        1954 Aug p 72-77
                                                         1969 Feb p 90-99
                                                                                     heat, propulsion, energy transformation, aerothermodynamics, laminar
 tsunamis, earthquakes, 'tidal' waves
                                                         1954 Aug p 60-64
                                                                                       flow, high temperatures propulsion
                                                                                                                                      1954 Sept p 120-131
    seiches, ocean waves, surf, breakers, generation and propagation of
                                                                                     fish, swimming, laminar flow, purpoises, how fishes and sea going
      ocean waves
                                                   1959 Aug p 74-84 [828]
                                                                                                                                 1957 Aug p 48-54 [1113]
                                                                                       mammals swim
 tsuzumi crystals, snow crystals, hexagonal habit, cloud physics, bullet
                                                                                     aerodynamics, air pollution, microclimate, micrometeorology, fluid
      clusters, variations on a theme
                                                       1973 Jan p 100-107
                                                                                       dynamics, troposphere, meteorology, atmospheric phenomena near
 tubercle bacillus, tuberculosis, mortality rates, economic development,
                                                                                                                                        1964 Oct p 62-76
                                                                                       the ground
      public health, science history, popularization of well-being, not
                                                                                    fluidization, petroleum cracking, particle bed, gas stream, food
      therapy, ends 'white plague'
                                                                                                                                       1968 July p 94-104
                                                         1949 Oct p 30-41
                                                                                       processing
   tuberculosis, bacteriology, biology of the germ
                                                     1955 June p 102-110
                                                                                    eddies, negative viscosity, wind, nonuniform flows, rotating systems,
 tuberculosis, tubercle bacillus, mortality rates, economic development,
                                                                                                                                        1970 July p 72-80
                                                                                       viscosity
      public health, science history, popularization of well-being, not
                                                                                  turgor movement, plant movement, nastic movement, geotropism,
      therapy, ends 'white plague'
                                                                                                                                     1955 Feb p 100-106
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                                                                                      phototropism, touch orientation
   tubercle bacillus, bacteriology, biology of the germ
                                                                                  Turing machine, automata theory, von Neumann machine, brain
                                                                                                                                       1955 Apr p 58-67
                                                      1955 June p 102-110
                                                                                      circuitry, computer design
                                                                                    feedback, computer science, von Neumann machine, automata theory,
   isomazid, isotopes, streptomycin, para-aminosalicylic acid,
      pharmacology, tracing action of TB drugs
                                                      1956 Nov p 135-144
                                                                                      self-reproducing machine, 'artificial living plants'
                                                                                                                                     1956 Oct p 118-126
   successful chemotherapy
                                                            1952 Apr p 39
                                                                                   biological sciences, mathematics, self-reproducing machine, nerve
   chemotherapy established
                                                            1952 May p 40
                                                                                      impulse, predation, automata theory, mathematics in biology
   drugs, facilitate surgery
                                                           1954 Sept p 80
                                                                                                                                   1964 Sept p 148-164
   BCG vaccine
                                                            1956 May p 60
                                                                                   games theory, logic, computer theory, algorithms, problem solving
                                                           1948 Nov p 25
tuberculosis control, W H O in China
                                                                                                                                    1965 Nov p 98-106
tuberculosis test, no false negatives
                                                            1950 Apr p 36
                                                                                 Turkey, metal artifacts, metallurgy, copper, Neolithic archeology, village-
tuberculosis vaccine, funds for BCG
                                                           1948 June p 24
                                                                                     farming communities, man's first use of metals 7,500 B C
tubulin, cell motility, wound healing, cell tracks, embryonic development,
                                                                                                                                     1970 Mar p 50-56
     mitotic apparatus, cell motion made visible to naked eye
                                                                                turkeys, animal behavior, courtship display, pecking order, sexual
                                                 1978 Apr p 68-76 [1386]
                                                                                     behavior, lek behavior, Welder Wildlife Refuge
'tulipomania', horticulture, virology, benign virus infection
                                                                                                                                   1971 June p 112-118
                                                     1960 Aug p 138-144
                                                                                                                                        1977 Aug p 58
                                                                                Turkish tallies, writing precursors
tumor, cancer, multipotential cells, teratoma, gene expression, plant cell,
                                                                                Turner's syndrome, Barr body, sex differences, chromosome, genetic
                                                1965 Nov p 75-83 [1024]
     inhibitions
                                                                                    mosaic, cytology, Klinefelter's syndrome, chromosomal anomalies,
   medical diagnosis, thermography, arthritis, skin temperature,
                                                                                                                                1963 July p 54-62 [161]
                                                                                    sex differences in tissue cells
                                                      1967 Feb p 94-102
     circulatory disorders
                                                                               turtles, animal migration, animal navigation, telemetry, sexual behavior,
tumor inhibition, angiogenesis, avascular tumors, cancer, tumor
                                                                                    nesting, Chelonia mydas, green turtle, 1,400-mile journey
     vascularization, tumor angiogenesis factor (TAF)
                                                                                                                              1965 May p 78-86 [1010]
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                                                                               'twiddling', bacteria, bacterial motility, flagella, rotation of flagella
tumor-specific antigens, antibodies, cancer, cell-surface antigens, cancer
                                                                                                                                    1975 Aug p 36-44
    immunology, immunopotentiators, immune response, leukemia,
                                                                               twins, identical twins, fraternal twins, ovulation estrin physiology of
                                                1977 May p 62-79 [1358]
     transplantation antigens
tumor tissue, tissue culture, 'nude' mice in tumor tissue culture
                                                                                    twinning
                                                                                 intelligence, race, whites, IQ, heredity, American Negro, heredity
                                                          1978 May p 88
                                                                                   population genetics, science policy, social psychology, environment,
tumor vascularization, angiogenesis, avascular tumors, cancer, tumor
                                                                                                                             1970 Oct p 19-29 [1199]
                                                                                   racial discrimination
    inhibition, tumor angiogenesis factor (TAF)
                                                                              two-phase materials, crystal structure, metals, whiskers, fiber-reinforced
                                                1976 May p 58-73 [1339]
                                                                                                                                   1965 Feb p 28-37
                                                                                   dislocations, matrix, composite materials
tumor-virus antigen, adenoviruses, cancer virus, SV40 virus, DNA virus,
                                                                                composite materials, materials technology, whiskers, fiber glass fiber-
    DNA recombination, gene transformation, virus etiology of cancer
                                                                                                                                1967 Sept p 160-176
                                                                                   reinforced composites, matrix, eutectics
                                                      1966 Mar p 34-41
                                                                              two-way channels, communication technology, network hierarchies,
tuna, heat exchange, mackerel shark, rete mirabile, thermoregulation,
                                                                                  communication, computer-assisted instruction, information retrieval
    comparative physiology, warm-bodied fishes
                                                                                   National Academy of Engineering study, 'Communications
                                               1973 Feb p 36-44 [1266]
                                                                                  Technology for Urban Improvement', 'wired city' concept
                                                      1969 Feb p 30-40
                                                                                                                               1972 Sept p 142-150
tunable laser, organic lasers
tundra, soil structure, chernozems, podzols, latozols, alluvial soils,
                                                                              Tycho Brahe, observatory, astronomy, scientific instrumentation,
    agronomy, ecology of soil, soil erosion, the soils of the world and
                                                                                  Stjerneborg, science history, 16th century Hven observatory
                                                      1950 July p 30-39
                                                                                                                               1961 Fcb p 118-128
tunnel junction, electric current, Josephson effects, superconductivity,
    their management
                                                                               Copernicus, planetary motion models, solar system, science history,
    microwave emission, quantum mechanics, confirmation and
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applications of Josephson effects

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pwelling, Peru Current, anchovy, guano, seagulls, El Niño 1954 Mar p 66–71	slums, cities, housing, relocation, eminent domain, urban planning, US experience with Federal subsidy of urban renewal
Earth, ocean circulation, gyres, wind, the circulation of the oceans 1955 Sept p 96-104	tenement rehabilitation, central-shaft technique 1965 Sept p 194-204
food supply, fisheries, manne farming, sea-water nutrients, fishponds 1970 Dec p 14-21 [1205]	urban revolution, social evolution, social behavior, human evolution, cities, 1500 B C origin of cities 1960 Sept p 153–168 [606]
anchovy crisis, El Niño, fishing, Peru Current, Peruvian anchovy 1973 June p 22–29 [1273]	urban riots, ghetto, racial discrimination, unemployment, public opinion, social class, American Negro, 'riffraff theory' versus 'blocked-
Jr-Nammu, Sumer, law code, hieroglyphs 1953 Jan p 26–28	opportunity' theory 1968 Aug p 15–21 [638]
ranium, Oak Ridge separation plant 1969 May p 56	'pre-political' demonstrations in U S 1968 June p 42
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ranium 233, from thorium 1968 Dec p 50	Lima, Peru 1967 Oct p 21–29
uranium 235, nuclear fission, heavy nuclei, liquid-drop model, neutron,	urban transport, mathematical model, vehicular traffic flow, traffic
shell model, fission fragments 1965 Aug p 49–59	theory, modeling auto flow patterns 1963 Dec p 35-43
gas-centrifuge research restricted 1967 June p 50	air pollution, smog, automobile emissions, ozone, air pollution control
separation by centrifuge, European plants 1969 May p 52	in Los Angeles 1964 Jan p 24-31 [618] cities, computer modeling, personal-transit systems, systems analysis,
uranium cycle, fission reactor, breeder reactor, nuclear power, energy	mass transit 1969 July p 19–27
economics, thorium cycle, breeder reactor development 1960 Jan p 82-94	Northeast Corridor ideas 1965 Apr p 56
breeder reactor, nuclear power, fast neutron reactor, thorium cycle,	urbanization, family size, U S census, U S population, reapportionment,
liquid-metal reactor, fission reactor, energy demand	U S census of 1950 1951 Apr p 15–17
1970 Nov p 13–21 [339]	US census, age-sex distribution, baby boom, family size, central city,
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uranum enrichment, isotope separation, laser-excitation technique, light	population control, family planning, economic development and the
absorption, quantum mechanics 1977 Feb p 86–98 [354]	demographic transition 1963 Sept p 62–71 [645]
gas-centrifuge process 1973 Aug p 43	economic development, industrialization, tropical rain forest,
gas-centrifuge enrichment 1977 Aug p 52	subsistence economy, tropical rain forest, resource management,
uranium fission, nuclear fission, fission products, 'synthetic' elements,	Brazil, uneven national development 1963 Sept p 208–220
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age, pottery age, radioactive decay 1976 Dec p 114–122	origin and evolution of cities 1965 Sept p 54-63
uranium ore, lignite beds, badlands of Dakotas 1954 Oct p 36-39	shantytowns, Calcutta, cities, caste, housing, poverty, traffic, Calcutta,
'atoms for peace', nuclear power, nuclear fuel, fuel-element fabrication,	a city of the poor 1965 Sept p 90-102
Geneva chemistry 1955 Oct p 34-37	of world population 1972 Oct p 47
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1957 July p 41–47	diffraction, bladder stones, gallstones 1968 Dec p 104-111
m U S S R. 1949 Mar p 24	urine, kıdney, counter-current exchange, nephron, glomerulus, osmosis,
new finds in France and Canada 1949 Apr p 25 in the Rockies 1950 Oct p 24	anatomy and physiology of the kidney 1953 Jan p 40–48 [37] diabetes insipidus, thirst, salt excretion, electrolyte balance,
processing plants 1951 May p 34	thermoregulation, kidney, physiological psychology, osmoreceptor
Belgian Congo 1954 Mar p 45	theory of thirst, Cannon 'dry mouth' theory 1956 Jan p 70-76
shortage foreseen 1974 Jan p 50	U.S.: United States of America
acceptable hazards 1976 June p 48	US agriculture, agricultural economics, food and agriculture, food
uranium-recovery plant, radiation-accident death 1965 June p 58	processing, 'agribusiness' 1976 Sept p 106–123
uranium resources, nuclear energy 1951 May p 17–21	U.S. Army, loyalty and security, McCarthy, Fort Monmouth, Scientists'
Uranus, Neptune, outer planets, Pluto, Saturn, solar system	Committee on Loyalty and Security, report on Signal Corps
1975 Sept p 130–140 planetary rings 1977 Aug p 57	Engineering Laboratory 1954 June p 29-31 U.S. census, urbanization, family size, U.S. population, reapportionment,
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1949 Oct p 29	age-sex distribution, fertility, human resources, mortality rates,
Urartu, Biblical archeology, Mount Ararat, Altintepe, 800 B C culture at	population of US 1951 Sept in 28–35
Noah's landing-place 1967 Mar p 38–46	urbanization, age-sex distribution, baby boom, family size, central city,
urban archeology, Roman Britain, Winchester 1974 May p 32-43	suburbs, U S census at 1960 1961 July p 39-45
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urban monkeys, rhesus monkeys, social behavior, learning, urban and forest monkeys in India 1969 July p 108–115 [523]	demographics, gross national product, more from the US census of
urban planning, housing, central city, suburbs, cities, metropolitan area,	
conurbation, evolution of the metropolis 1965 Sept p 64-74	U S population, population redistribution, human migration, suburbanization, U S census of 1970 1971 July p 17-25
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Ciudad Guyana, cities, land ownership, economic geography, highway	transactions, 1958 U.S. Department of Commerce input-output table
engineering, a model city in Venezuela 1965 Sept p 122-132	1965 Apr. p. 25_35 (624)
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central city, cities, highway engineering, mass transit, open space, diversity, 'paths' 1965 Sept. p. 209-219	U.S. metals industries, import dependent
urban renewal, land use, urban planning Stockholm cities land	U.S. politics, scientists for Johnson
ownership, Stockholm as a planned city 1965 Sept p 106–115	Il S. consus of 1050
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1956 S	Sept. p. 170-182 [240]	UNRRA: United Nations Relief and Rehabilitation A UNRRA milk program, powder instead of pasteurizati	on
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curvature, according to Gamow 19 cosmology, science history, philosophy of science, a	skeptical view of	hurricanes 1957 A	ug. p. 33-37 [047]
	750 Bept. p. 224 250	Antarctica, Earth magnetic field, 'whistlers', solar win atmosphere-magnetic field-solar wind interaction	10, 201012,
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. As calles Andromeda	Galaxy galactic	The same almost atomic energy levels 1906	Mar. p. 102-110
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1062 Oct = 20	1954 July n 16 40
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1956 Dec. n. 35. 3	Invention 1974 Mar p 92-101
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1964 July n 16~23 I62	Van Allen belts, artificial satellite, solar particles, cosmic radiation,
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terine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 July p 25–29 pohomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital rubella, rubella 1966 July p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbal medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p 74 vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis	Charge-changing accelerator, negative ion 1970 Aug. p. 24-35 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972. July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955. May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952. Mar. p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975. June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967. Aug. p. 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976. Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961. Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining vessels 1962. Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968. Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics 1961. Nov. p. 144-154. Vector, algebra, mathematics, science history, matrix. 1964. Sept. p. 70-78 vehicular traffic flow, mathematical model, urban transport traffic theory modeling auto flow patterns 1963. Dec. p. 35-43.
terine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 July p 25–29 poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella 1966 July p 30–37 chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbal medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p 74 vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic	charge-changing accelerator, negative ion 1970 Aug. p. 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar. p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 variolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining vessels vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics 1961 Nov. p. 144-154 vector, algebra, mathematics, science history, matrix. 1964 Sept. p. 70-78 vehicular traffic flow, mathematical model, urban transport traffic theory modeling auto flow patterns 1963 Dec. p. 35-43 veins, hypertension, venous system, plethysmography, vasoconstriction actively dilating and constricting blood reservoir
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terine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] **V-particles*, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1955 July p 25–29 poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella rubella rubella rubella, rubella chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 Map p 74 vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, pacterioscopy, ultra-high vacuum, oil diffusion pump, sputter-ion vacuum, spectroscopy, ultra-high vacuum, oil diffusion pump, sputter-ion vacuum, spectroscopy, ultra-high vacuum, oil diffusion pump, sputter-ion vacuum, spectroscopy.	charge-changing accelerator, negative ion 1970 Aug. p. 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24, 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 38-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 vanolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining 1962 Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics 1961 Nov. p. 144-154 vector, algebra, mathematics, science history, matrix 1964 Sept. p. 70-78 vehicular traffic flow, mathematical model, urban transport traffic theory modeling auto flow patterns 1963 Dec. p. 35-43 vens, hypertension, venous system, plethysmography, vasoconstriction actively dilating and constricting blood reservoir 1968 July p. 48-51 [255]
Truman announcement uterine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] v-particles, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, vanolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1953 July p 25–29 poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 May p 74 vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, bacteriophage, structure of viruses 1963 Jan p 48–56 vacuum, spectroscopy, ultra-high vacuum, oil diffusion pump, sputter-ion pump, cryogenic pump, mass, vacuum down to 10 til mm of mercury pump, cryogenic pump, mass, vacuum down to 10 til mm of mercury	charge-changing accelerator, negative ion 1970 Aug. p. 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter 1952 Mar p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 vanolation, cowpox, medical history, smallpox immunization vaccination, 'vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage 1961 Apr. p. 88-104 cardiovascular surgery surgical stapler stapling technic for joining vessels 1962 Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics veincular traffic flow, mathematical model, urban transport traffic theory modeling auto flow patterns 1963 Dec. p. 35-43 veins, hypertension, venous system, plethysmography, vasoconstriction actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] velocity, measurement, Brownian motion, time, uncertainty principle Planck's constant, limits of measurement 1950 July p. 48-51 [255] flame chemistry, chemical kinetics, flash tube ram jet, h. it, luminosity
terine muscle, obstetrical labor, strain gauge, measurement of forces in uterine muscle at delivery 1950 Mar p 52–55 progesterone, pregnancy, hormone, menstrual cycle, hormone inhibition of uterine muscle contraction 1958 Apr p 40–46 [163] **V-particles*, high-energy physics, mesons, fermion, boson, the multiplicity of particles 1952 Jan p 22–27 vaccination, eye disease, trachoma, virus disease, epidemiology, immunization 1964 Jan p 79–86 cowpox, medical history, smallpox immunization, variolation, 'vaccination' before Jenner 1976 Jan p 112–117 medical history, smallpox eradication, W H O campaign 1976 Oct p 25–33 vaccine, influenza virus, immunization, chick-embryo culture, hemagglutination, genetic variation, difficulty in securing flu immunization 1953 Apr p 27–31 poliomyelitis, gammaglobulin, epidemiology, immunity, blood fractionation 1955 July p 25–29 poliomyelitis virus, epidemiology, antibody persistence 1955 Apr p 42–44 congenital anomalies, purpura, virus disease, teratogenesis, pregnancy, congenital rubella, rubella rubella rubella rubella, rubella chemotherapy, drug effects, liver function, pharmacology, hormone, antibiotics, medical care, herbial medicine 1973 Sept p 102–112 vaccine sought, N S F, rubella, measles vaccine, Haworth director 1963 Map p 74 vaccinia virus, adenoviruses, virology, X-ray diffraction, poliomyelitis virus, polyoma virus, herpes virus, influenza virus, tobacco mosaic virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, bacteriophage, structure of viruses 1963 Jan p 48–56 virus, pacterioscopy, ultra-high vacuum, oil diffusion pump, sputter-ion vacuum, spectroscopy, ultra-high vacuum, oil diffusion pump, sputter-ion vacuum, spectroscopy, ultra-high vacuum, oil diffusion pump, sputter-ion vacuum, spectroscopy.	charge-changing accelerator, negative ion 1970 Aug. p. 24-37 Van der Waals force, ionic bonds, covalent bonds, hydrogen bonds, long range forces, chemical bond, antigen-antibody reaction, proposed intermolecular long range force 1948 Oct p. 14-17 vanadium, elements, living matter, essential elements, metallo enzymes, fluorine, silicon, tin, list of elements essential to life lengthened to 24 1972 July p. 52-60 vaporization, capillary action, heat pipes, latent heat, heat transfer, heat radiator 1968 May p. 38-46 variable host, germ theory, immunity, infection, germ-free animals 1955 May p. 31-35 variable stars, photocell, light amplification, photomultiplier, stellar temperature, interstellar matter. 1952 Mar. p. 56-59 stellar composition, organ pipe analogy, stellar brightness 1975 June p. 66-75 interstellar matter, stellar formation, infrared radiation lithium, youngest stars? 1967 Aug. p. 30 vanolation, cowpox, medical history, smallpox immunization vaccination, vaccination' before Jenner 1976 Jan. p. 112-117 vascular surgery, artery prostheses, cardiovascular disease atherosclerosis, repair of vascular disease damage cardiovascular surgery surgical stapler stapling technic for joining vessels 1962 Oct. p. 48-56 vasoconstriction, hypertension, venous system plethysmography, veins actively dilating and constricting blood reservoir 1968 Jan. p. 86-96 [1093] vault, architectural engineering, roof, Gothic arch, Romanesque barrel vault, Byzantine dome, building construction vaulting technics 1961 Nov. p. 144-154 vector, algebra, mathematics, science history, matrix. 1964 Sept. p. 70-78 velicular traffic flow, mathematical model, urban transport traffic thoromodeling auto flow patterns 1963 Dec. p. 35-43 vens, hypertension, venous system, plethysmography, vasoconstriction actively dilating and constricting blood reservoir 1968 Jun. p. 86-96 [1093]

eye, retinal pigments, color perception, cone cells, trichromaticity	'Ames room', personality, aniseikonic lenses, anxiety, 'Honi'
implies three cone pigments 1962 Nov p 120–132 [139]	phenomenon, emotional relationships condition perception 1959 Apr p 56-60
eye, visual cortex, retina, optic nerve, organization of sight into vision 1963 Nov p 54-62 [168]	color vision, 'long' and 'short' wavelengths in color perception
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behavior, small neuron systems as models for study	'visual cliff', depth perception, infant, comparative psychology, genesis
learning, sensory perception, touch, visual perception dominates touch	of depth perception 1960 Apr p 64-71 visual scanning, retina, visual cortex, how we see straight lines
1967 May p 96–104 [507]	1960 June p 121–129
visual pigments, opsin, rhodopsin, isomerism, vitamin A	depth perception, vision, learning, innate and learned response to
1967 June p 64–76 [1075]	visual cues 1961 Mar p 138–148
eye movement, saccades, visual attention, fovea, human eye, visual fixation, experiments with eye-marker camera	form perception, learning, perception, innate or learned form perception 1961 May p 66–72 [459]
1968 Aug p 88–95 [516]	retina, vision, learning, Gestalt psychology, stabilized retinal images,
retina, photographic emulsion, vidicon, television camera,	evidence for perceptual theories 1961 June p 72–78 [466]
photochemistry, light, image detection, electronic camera 1968 Sept p 110-117	learning, Fechner's law, psychophysics, Skinner box, behavioral psychology, conditioned behavior, pigeon perception
photosynthesis, photoperiodicity, visual pigments, phytochrome,	1961 July p 113–122 [458]
chlorophyll, retina cells, plant growth, light and living matter	moon illusion, apparent distance theory, Gestalt psychology,
1968 Sept p 174–186	explanation of a familiar illusion 1962 July p 120–130 [462] color vision, constancy effect, neutral colors
light, image processing, visual perception, imagery, eye and brain in visual perception 1968 Sept p 204-214 [519]	1963 Jan p 107–116 [474]
eidetic images, child psychology, perceptual memory, 'photographic'	visual systems, scallop, surf clam, inhibitory impulse, shadow-sensitive
memory 1969 Apr p 36-44 [522]	receptors, invertebrate 'eyes' as models for study of organization of
perception, retinal image-processing, visual perception, retina, visual- cell types 1969 May p 104-114 [1143]	sensation in perception 1963 July p 122–130 amphibian, frog, color vision, retina, retinal image-processing, retinal
afterimages, phosphenes, perception, prosthesis for blind, self-	processing of visual sensation 1964 Mar p 110–119
illumination of visual centers 1970 Feb p 82–87	optical illusion, illusion of movement, apparent movement, motion
aging, cataract, eye lens, human eye 1975 Dec p 70-81 binocular vision, random-dot stereograms, stereogram experiments,	perception 1964 Oct p 98–106 [487] pattern recognition, computer graphics, stereoscopic images, texture
visual perception 1976 Mar p 80–86 [569]	discrimination, depth perception 1965 Feb p 38–48 [318]
isual adaptation, color vision, vision, human eye	binocular vision, infant development, operant conditioning,
1962 May p 62–72 [465]	developmental psychology, information processing, space, size,
risual attention, vision, eye movement, saccades, fovea, human eye, visual fixation, experiments with eye-marker camera	shape perception in human infants 1966 Dec p 80–92 [502] vision, light, image processing, imagery, eye and brain in visual
1968 Aug p 88–95 [516]	perception 1968 Sept p 204-214 [519]
visual cells, rod cells, cone cells, autoradiography, protein synthesis,	optical illusion, size constancy, distortion, pictures as objects, illusions
renewal mechanisms in retinal cells 1970 Oct p 80–91 (visual cliff', depth perception, infant, comparative psychology, visual	arise from normally useful mechanisms 1968 Nov p 66–76 [517] perception, vision, retinal image-processing, retina, visual-cell types
perception, genesis of depth perception 1960 Apr p 64-71	1969 May p 104-114 [1143]
visual communication, information theory, painting, sculpture,	eye movement, pattern recognition, scan-path recordings, serial-
architecture, communication, trademarks, language, visual stimulus, visual signals 1972 Sept p 82–96 [548]	recognition hypothesis 1971 June p 34–43 [537] depth reversal, Necker cube, optical illusion, reversing figures
visual cortex, visual perception, visual scanning, retina, how we see	1971 Dec p 62–71 [540]
straight lines 1960 June p 121–129	contour perception, contrast perception, Mach bands, neuronal
human eye, optical illusion, vision, sensory perception, 'after effects', 'cortical satiation' 1962 Jan p 44-49	response, optical illusion, Craik-O'Brien effect 1972 June p 90–101 [543]
eye, retina, optic nerve, vision, organization of sight into vision	bilingualism, dyslexia, eye movement, grammatical relations, language,
1963 Nov p 54–62 [168]	reading, perception of words 1972 July p 84–91 [545]
binocular vision, depth perception, eye, neurophysiology, optic chiasm, stereopsis 1972 Aug p 84-95 [1255]	cultural differences, split-style art, cultural context of perception, Hudson test 1972 Nov. p. 82–88 [551]
brain circuitry, embryonic development, nerve cells, neuronal	brain circuitry, mammalian brain, nerve signals, sensory systems
specificity, Xenopus laevis 1973 Feb p 26–35 [1265]	stimulus localization, superior colliculus in integration at brain
albinism, gene mutation, Siamese cat, white mink, white tiger, cross- eyed trait 1974 May p 44-54 [1294]	function 1972 Dec p 72-82 [553] brain hemispheres, cerebral dominance, left-hemisphere functions,
brain circuitry, eye movement, neurophysiology, pons, visual	music perception, right-hemisphere functions, auditory perception
processing, visual cells in pons 1976 Nov p 90–98 cat response to parallax 1968 Feb p 52	1973 Mar p. 70–78 [554]
visual discrimination, color vision, learning, conditioned behavior,	information theory, computer graphics, 'block portraits', computer enhancement, pattern recognition, recognition of faces
behavioral psychology, Skinner box, pigeons conditioned to respond	1973 Nov. p. 70. 82
to discrete wavelengths of light 1958 Jan p 77–82 [403]	disoriented figures, form perception, retinal orientation
visual fixation, vision, eye movement, saccades, visual attention, fovea, human eye, experiments with eye-marker camera	1974 Jan p 78–85 [557] animal behavior, escape response, neurophysiology, toad, visually
1968 Aug n 88-95 [516]	guided behavior 1974 Mar p. 34 42 (1202)
visual illusion, see optical illusion visual memory, image processing, memory, perception, linguistic material,	color fusion, color scission, perceptual transparency physical
remembering what is seen 1970 May p. 104–112 [528]	transparency, optical illusion, transparency
visual perception, 'Ames room', distance perception, motion perception.	art, Escher's prints, optical illusion, perception of pictures, psychology
optical illusion, size perception, illusions as clues to organization of perception 1951 Aug p 50-55	107.1 July = 00 104 (500)
nerve regeneration, vision, learning, embryonic development, inhorn	contrast perception, spatial frequency, visual thresholds
hard winner of herve circuity 1056 Nov. = 48 52 (1000)	pattern recognition, figure-ground perception, texture discrimination,
horseshoe crab, vision, Limulus, ommatidia, optic nerve, horseshoe crab as laboratory animal 1956 Dec p 113–122	1975 Apr p 34-43 [563]
kinesthetic memory, spatial orientation, neuropsychology, perception	of a monon determination to the second secon
of the upright 1959 Feb p 50-56 [410]	binocular vision, random-dot stereograms, stereogram experiments, vision 1976 Mar p 80–86 [569]
	contour perception, optical illusion 1976 Apr p 48–52 [570]
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interferon, virus interference, broad-spectrum natural anti-viral agent	anata
1961 May n 51 57 to-	carcinogenesis, cancer epidemiology, environmental carcinogens,
adenoviruses, A-ray diffraction, poliomyelitis virus, polyoma virus	better better that attorn, cancer prevention
herpes virus, influenza virus, vaccinia virus, tobacco mosaie virus,	interferon induction, medical care 1975 Nov. p. 64-78 [1330]
bacteriophage, structure of viruses 1963 Jan. p. 48-50 interferon, virus interference, nucleic acid, infection, anti-viral agent	antigen variation, disease, medical history, influenza virus encephalitis
found to act against foreign nucleic acid 1963 Oct. p. 46–50 1166	Dandemics animal vectors Hone Vone for mine for
found to act against foreign nucleic acid 1963 Oct. p. 46-50 [166 bacteria, flies, epidemiology, maggot, dysentery, disease vector	1977 Dec. p. 88-106 [1375]
1065 Tuly = 02.00	carcinogenesis, integrated DNA 1968 Nov. p. 56
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viid valley, Peru, New World archeology 1954 Aug n 20 24	virus interference, interferon, virology, broad-spectrum natural anti-viral agent 1961 May p. 51-57 [87]
virus, herpes simplex, chick-embryo culture, symbiosis	interferon virology nucleic acid infection anti-virol agent found to
hiochemistry enzymes citric said and a 1949 Nov. p. 50–53	act against foreign nucleic acid 1963 Oct. p. 46-50 [166]
biochemistry, enzymes, citric-acid cycle, metabolism, co-enzymes, sulfa drugs, antibiotics, science, biochemistry 1900-1950	virus laboratory, at Berkeley 1952 Dec. p. 28
1950 Sept. p. 62–68	virus multiplication, DNA, genetic code, poliomyelitis virus, protein
aster yellow, leafhopper, virus infective to plant and insect	
1953 June p. 78_86	virus # X 174, DNA synthesis, cell-free system, DNA polymerase, activated nucleotides, first test-tube synthesis of biologically active
life cycle, reproduction, bacteriophage, provints 1954 Mar n 34_37	DNA 1968 Oct. p. 64-78 [1124]
tobacco mosaic virus, protein 'overcoat', nucleic acid 'core',	virus particles, bacteriophage, gene mapping, amber mutants
dissociation and reconstitution of infective particles	1965 Feb. p. 70-78 [1804]
1956 June p. 42-47 cell anatomy, spermatozoon, ovum, science history, cytology, muscle	rods and spheres 1956 May p. 62
cell, plant cell, connective tissue cell, introduction to single-topic	virus shell, virus structure, polyhedra, bacteriophage, assembly of T4 subunits from core out .1966 Dec. p. 32-39 [1058]
1961 Sept. p. 50–61 [90]	virus structure, protein 'overcoat', DNA 1954 Dec. p. 62-70 [32]
bacteriology, microorganisms, PPLO, electron microscopy, cytology,	polyhedra, virus shell, bacteriophage, assembly of T4 subunits from
smallest free-living cells 1962 Mar. p. 117–126 [1005]	core out 1966 Dec. p. 32-39 [1058]
leukemia, leukocyte, cancer, chemotherapy, ionizing radiation, Down's	bacteriophage, T4 virus, DNA, mutation, morphogenesis, test-tube
syndrome, origin and treatment of lymphocytic and granulocytic leukemia 1964 May p. 88-96	reconstruction of viral components 1967 July p. 60-74 [1079]
TMV in cross-section 1952 Jan. p. 36	DNA, genetic code, poliomyelitis virus, protein synthesis, RNA, virus multiplication 1975 May p. 24-31
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T4 virus assembled 1967 May p. 56	electronmicroscopy 1954 Apr. p. 49
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provirus, coexisting viruses, viral genes in host chromosome	1952 Mar. p. 35 loyalty and security, visa-troubled psychologists 1952 July p. 36
1976 Dec. p. 102–113 [1347] virus antigens, antibodies, antigen complement, immune response,	loyalty and security, visa-troubled psychologists loyalty and security, visa to Pauling 1952 Sept. p. 12
lymphocytes, virus disease, autoimmune disease, allergic reaction,	loyalty and security, meetings go abroad 1953 Mar. p. 47
immune-complex disease, glomerulonephritis, lymphocytic	loyalty and security courts compel visas 1955 Sept. p. 72
choriomeningitis, serum sickness 1973 Jan. p. 22–31 [1263]	viscoelastic material poise control vibration constrained-layer damping
virus culture, polio virus, human embryo tissue 1955 Sept. p. 76	1969 Jan. p. 98-106
virus-destroying bacterium 1959 Sept. p. 108 virus disease, antibiotics, aureomycin, rickettsial disease, bacterial	viscometer, molecular weight determination, polymers, light scattering, photometer, how giant molecules are measured 1957 Sept. p. 90-97
infection, 'broad spectrum' antibiotic 1949 Apr. p. 18–23	malacular maight determination, polymers, light scalleffills.
antibiotics, infectious disease, toxicity, bacterial resistance, status of	photometer how giant molecules are measured 1957 Nov. p. 30-31
new medical technology 1949 Aug. p. 26–35	viscosity, eddies, negative viscosity, turbulence, wind, normal transfer and 17,80
encephalitis, animal vectors, influenza virus 1949 Sept. p. 18–21	sition relation form percention role of experience in visual
common cold, human subjects, chilling test, Salisbury, England, study 1951 Feb. p. 39-45	perception 1949 Aug. p. 32 32
influenza virus, bacteriophage, poliomyelitis virus, bacteriophage,	'afair language and hand goordination human eve
antigen-antibody reaction, immunity, infection, host-specificity,	1950 Feb. p. 20–22 [401]
viruses in infection and in the laboratory 1951 May p. 43-51	learning, experience, sensory deprivation, 'arrested vision', role of environment experience in normal development
carcinogenesis, polyoma virus, recombinant DNA, 'temperate'	1950 July p. 16-19 [408]
infection, genetic transduction, viral induced malignancy 1960 Nov. p. 63-71 [77]	nerve regeneration, learning, visual perception, embryonic
common cold, tissue culture, 20 strains cultured 1960 Dec. p. 88-102	development, inborn 'hard wiring' of nerve circuitry 1956 May p. 48-52 [1090]
I vsenko genetics, notato virus, vernalization, agronomy, the Lysenko	harrashan grab Limulus ammatidia visual percention, optic nerve,
affair 1962 Nov. p. 41–49 eye disease, trachoma, vaccination, epidemiology, immunization	horseshoe crab as laboratory animal 1956 Dec. p. 113-122
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non-conital rubella rubella 1900 July P. 30-37	glaucoma, iridectomy, blindness, human eye 1959 Aug. p. 110-117 photosynthesis, chlorophyll, carotene, retinene, photobiology.
brain disease, scrapie, kuru, Chédiak-Higashi syndrome, animal	who to transfer biolymines cence sunlight life and 11201
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CC and riokettsine tear and herbicide, chemical-biological	depth perception, learning, visual perception, innate and learned response to visual cues 1961 Mar. p. 138-148
warfare 1970 Way p. 15-25 [1770]	reting visual perception, learning, Gestalt psychology, stabilized
interferon induction, poly I:C, synthetic RNA 1971 July p. 26–31 [1226]	ratinal images, evidence for perceptual theories
the state of the s	1961 June p. 72-78 [466] hearing, sensory organs, ommatidia, neuroreceptor cells, cytology, taste
	had how calls receive stimuli 1901 SCDL D. 222-230 [77]
disease, glomerulonephritis, lymphocytic choriomeningitis, serum 1973 Jan. p. 22–31 [1263]	human eye, optical illusion, sensory perception, after effects, visual
sickness viral vaccines	poster (cortical satiation) 1902 Jun. p. 44-47
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degenerative diseases, immune system, slow virus infection, kuru, 1974 Feb. p. 32–40 [1289]	1962 June p. 119–127
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voting behavior, public opinion, voters' attitudes, correlation analysis,	water-breathing by mammals, lung, gill, oxygen transfer, carbon dioxide,
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1950 Nov p 11–13	1968 Aug p 66–74 [112
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1954 May p 31–35	buffalo as draft and 'beef' animal 1967 Dec p 118–125 [108
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1955 Feb p 35–39 [453]	control, flyball governor, origins of feedback control
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1976 June p 21–27 [689]	water conservation, evaporation control 1956 Oct p
vulcanization, butadiene, rubber synthesis, isoprene, latex, elastomers,	water cycle, ground water, artesian well, piezometric surface, water table
synthetic rubber, molecular structure 1956 Nov p 74-88	resource management, runoff, ground water in water-resource
vultures, bird flight, gliding birds, soaring, thermal cells, lift phenomena	
1973 Dec p 102–109	cloud seeding, air pollution, water drop, ice crystals, fog, inversion laver, smog 1968 Dec p 74–82 [87
	layer, smog 1968 Dec p 74-82 [87] transpiration, evaporation, runoff, agricultural system, ocean,
	precipitation, biosphere, photosynthesis 1970 Sept p 98–108 [119
W/	atmospheric circulation, hydrology, ground water, 'aerological
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t and the formation	ground water, reservoir recharging, water resource management
wadı, Nabataean culture, ırrıgatıon, desert, agrıcultural system,	1977 May p 21–27 [92
restoration of Nabataean irrigation works in the Negev 1956 Apr p 39-45	water drinking, antelope, desert adaptation, thermoregulation,
1930 Apr p 35-43	evaporation, eland and oryx, survival without drinking
wagons, transportation, wheeled vehicles, oxen, carts, Transcaucasus,	1969 Jan p 88-
Mesopotamia, origin of wheeled transport 5,000 years ago 1968 July p 82-90	water drop, cloud seeding, water cycle, air pollution, ice crystals, fog,
	inversion layer, smog 1968 Dec p 74–82 [87
wake turbulence, aerodynamics, aircraft-wake vortexes, contrails, flight safety jet flight 1974 Mar p. 76–83	water erosion, climatic change, rivers, drainage patterns, river evolution
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1952 Nov p 34–38 [431]	'water gas' process, coal, chemical raw material, fossil fuel, coking,
walking, locomotion, primates, human evolution, bipedal walking,	hydrogenation 1955 July p 58-6
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1967 Apr p 56–66 [1070]	polywater, thermal conductivity, surface tension, evidence for water
architecture, stairs, stride 1974 Oct p 82–90	II argued 1970 Nov p 52-
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of walking 1976 Dec p 72-86 [1346]	1965 July p 34-4
Wallace, Darwinism, natural selection, science history, life and work of	land subsidence, petroleum extraction 1967 June p 93–10
Alfred Russel Wallace 1959 Feb p 70-84	water maser, maser, cosmic masers, hydroxyl maser, maser star,
wandering poles, Earth, geomagnetism, remanent magnetism, magnetic	interstellar matter, astrophysics, quantum mechanics, 'nature
reversals, Earth's magnetism 1955 Sept p 152–162	imitates art' 1978 June p 90–10
Wankel engine, automobile engines, rotary engine, Tschudi engine	water molecules, crystallography, ice, crystal structure, snow crystals,
1969 Feb p 90–99	migrating lattice faults in ice 1966 Dec p 118–126 [30
air pollution, automobile engines, rotary engine, auto engineering	water of crystallization, atmosphere, escape velocity, photosynthesis, volcanoes, nitrogen, oxygen, origin and evolution of Earth's
1972 Aug p 14–23	
war, ACTH, stress, combat fatigue, psychiatry, Korean war studies of battlestress 1956 Mar p 31-35	atmosphere 1953 Aug p 82-86 [82 water palatability, mineral content 1967 Feb p (
architectural engineering, castle, Norman invasion, English castles,	water pollution, biological oxygen demand, sewage treatment, radioactiv
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social psychology, Zulu peoples, social anthropology, short-lived	air pollution, cities, water supply, sewage disposal, smog, taxation, Lo
empire of Zulu chief Shaka 1960 Apr p 157–168	Angeles, New York, metabolism of cities 1965 Sept p 178–19
cavalry, Mongol conquests, Chingis Khan, frontier history, nomatic	eutrophication, fisheries, fish population, runoff, Great Lakes, silt, U
civilization, Chingis Khan, biography 1963 Aug p 54-68	Great Lakes' aging 1966 Nov p 94–104 [105
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Warsaw, high-energy physics, report on a visit by Leopold Infeld	cooling towers, waste heat 1969 Mar p 18-27 [113
1949 Dec p 40-43	U.S. Federal anti-pollution act 1961 Sept p. 9
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'super slurper' for liquid messes 1976 Apr p 61	biodegradable surfactant 1968 May p
waste recycling, forest products, wood pulp, paper, cellulose, lignin,	nitrate fertilizers 1969 Mar p
rayon, kraft process 1974 Apr p 52–62 wastewater, treatment with bacteria 1972 Dec p 42	water purification, catalysis, corona discharge, free radicals, ozone,
wastewater purification, high-gradient magnetic separation, kaolin	polymerization, corona chemistry, hydrocarbon cracking
purification, magnetic separation, separation techniques	1965 June p 90-9 water quality, ocean pollution, pollution control, waste disposal in ocean
1975 Nov p 46–54	1974 Aug p 16–3
water, photosynthesis, chlorophyll, carbon dioxide, tracer experiments	water resource management, economic development, industrialization,
1948 Aug p 24–35	water supply, irrigation, desalination, technology and economics of
ice, hydrogen-ion migration, snow crystals, hydrogen bonds, hydration,	water in economic development 1963 Sept. p. 97-10
physical and chemical properties 1956 Apr p 76-89	irrigation, ground water, artesian well, agricultural technology, Sahara
distillation, desalination, ion exchange solar still, alternative	desert, land reclamation, intercalary water, 'fossil' water, making
technologies 1957 Mar p 37–45	desert fertile 1966 May n. 21. 2
ice, snow, frost, supercooling, condensation nuclei, ice worms, how water freezes	ground water, reservoir recharging, water cycle
water freezes 1959 Feb p 114–122 anomalous' water, 'biological' water, blood, hemoglobin, membrane	1977 May p 21-27 [92-
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1971 Feb p 88–96 [1213]	water retention, mouse physiological advances in 1963 Oct p 5
a liquid semi-crystal	water retention, mouse, physiological adaptation, behavioral adaptation, Mus musculus, commensal of man 1969 Oct. p. 103-110 (115)
water balance, desert rat, kidney, oxidation of food, how hanner-tailed	Mus musculus, commensal of man 1969 Oct p 103-110 [115] water-strider, surface tension, backswimmer, whirligig beetle, ecology,
kangaroo fal survives without water 1953 July n 73,78 (1950)	springtail, aquatic insect, insects of the water surface
body water, homeostasis, distribution between intracellular and	- 1070 A

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iter clock, control systems, feedback, thermostat, windmills, automatic
  control, flyball governor, origins of feedback control
                                                  1970 Oct p 110-118
                                                        1956 Oct p 68
ter conservation, evaporation control
ter cycle, ground water, artesian well, piezometric surface, water table,
  resource management, runoff, ground water in water-resource
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  management
cloud seeding, air pollution, water drop, ice crystals, fog, inversion
                                              1968 Dec p 74-82 [876
  layer, smog
transpiration, evaporation, runoff, agricultural system, ocean,
  precipitation, biosphere, photosynthesis 1970 Sept p 98-108 [1191
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                                              1973 Apr p 46-61 [907
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ater drinking, antelope, desert adaptation, thermoregulation,
  evaporation, eland and oryx, survival without drinking
                                                     1969 Jan p 88-95
ater drop, cloud seeding, water cycle, air pollution, ice crystals, fog,
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ater maser, maser, cosmic masers, hydroxyl maser, maser star,
  interstellar matter, astrophysics, quantum mechanics, 'nature
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ater molecules, crystallography, ice, crystal structure, snow crystals,
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                                            1966 Dec p 118-126 [307]
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   volcanoes, nitrogen, oxygen, origin and evolution of Earth's
   atmosphere
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   waste disposal, stream pollution
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   Angeles, New York, metabolism of cities
                                                 1965 Sept p 178-190
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                                            1966 Nov p 94-104 [1056]
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   cooling towers, waste heat
                                             1969 Mar p 18-27 [1135]
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                                                       1961 Sept p 90
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                                                       1967 Nov p 53
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rater purification, catalysis, corona discharge, free radicals, ozone,
   polymerization, corona chemistry, hydrocarbon cracking
                                                    1965 June p 90-98
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    water in economic development
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    desert fertile
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                                                        1963 Oct p 58
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    Mus musculus, commensal of man
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afterimages, negative aftereffects, optical illusion viticulture, grape fermentation, wine, yeast, climate, enzymes, chemical 1976 Dec. p 42-48 [574] explanation of a good wine, role of climate eye, motion-perception system, moving-target perception, neurophysiology 1964 Aug p 46-56 [190] 1977 Jan p 60-73 [575] color and illumination, color vision, reflection, 'retinex' theory, visual wine varieties. Mediterranean wines, temperate climate wines pigments, 'color Mondrian' experiment 1977 Dec. p 108-128 [1392] 1974 June p 106-115 [1298] vocal display, behavior, speech, facial expression, nonverbal adjacency principle, motion perception, contextual cues in perception communication, facial expression in communication 1978 May p. 126-139 [582] 1965 Oct p 88-94 [627] Limulus, ultraviolet receptor 1964 Apr. p 62 vocal tract, speech synthesis, talking computers, spectrograph Voder retinal image processing 1965 Jan. p. 50 1972 Feb p 48-58 color-blind art students 1970 Apr p 48 Voder, computer technology, speech recognition, sound spectrogram visual pigments, afterimages, color vision, photochemistry, sensory 1955 Feb p 92-98 discrimination, photochemistry of color perception speech synthesis, talking computers, vocal tract, spectrograph 1963 Oct p 84-93 [1089] 1972 Feb p 48-58 vision, opsin, rhodopsin, isomerism, vitamin A voice, physics, harmony, string instruments, wind instruments, plano 1967 June p 64-76 [1075] musical scale, acoustics, agreeable melodies and physical laws vision, photosynthesis, photoperiodicity, phytochrome, chlorophyll, 1948 July p 32-41 retina cells, plant growth, light and living matter music, singing voice, pharynx, larynx, acoustics of singing voice 1968 Sept p 174-186 1977 Mar p 82-91 color blindness, cone cells, fovea, genetic disease, reunal imagevoice analysis, acoustic analysis, sound spectrogram, speech quality of processing 1975 Mar p 64-74 [1317] 1965 Mar p 82-91 [492] mental patients color and illumination, color vision, reflection, 'retinex' theory, visual volcanic activity, Andes, earthquake distribution, mountain formation, perception, 'color Mondrian' experiment 1973 Aug p 60-69 [910] plate tectonics, seismic waves 1977 Dec p 108-128 [1392] volcanic eruption, Krakatoa, plant succession, ecology visual processing, brain circuitry, eye movement, neurophysiology, pons, 1949 Sept p 52-54 visual cortex, visual cells in pons 1976 Nov p 90-98 diamond, plumes, Earth mantle, kimberlite pipes, genesis of kimberlite visual scanning, visual perception, retina, visual cortex, how we see 1978 Apr p 120-132 [931] straight lines 1960 June p 121-129 volcanic rocks, magnetic field, paleomagnetism, geomagnetic reversals, memory, visual search, information processing, reading, pattern sea-floor spreading, reversals of Earth's magnetic field recognition 1967 Feb p 44-54 1964 June p 94-102 [486] eye movement, feedback, visual tracking, human eye, control volcanic sediments, Eocene epoch, Yellowstone National Park, petrilied mechanisms of the eye 1964 July p 24-33 wood, erosion, petrified forests of Yellowstone visual search, memory, visual scanning, information processing, reading, 1964 Apr p 186-114 pattern recognition volcanie zones, earthquake zones, island arcs, lithosphene subduction, 1964 June p 94-102 [486] visual stimulus, information theory, painting, sculpture, architecture, mountain formation, plate tectonics, sea-floor spreading, subduction 1975 Nov p 88-98 [919] visual communication, communication, trademarks, language, visual signals volcanoes, geophysics, geochemistry, their physics, chemistry, 1972 Sept p 82-96 [548] 1951 Nov p 45-52 visual systems, visual perception, scallop, surf clam, inhibitory impulse, distribution and role in geological processes climate, dust, solar radiation, world climate and volcanic activity shadow-sensitive receptors, invertebrate 'eyes' as models for study of 1952 Apr p 74-80 [843] organization of sensation in perception 1963 July p 122-130 atmosphere, escape velocity, photosynthesis, water of crystallization, visual targeting, coordination of movement, eye-head coordination, nitrogen, oxygen, origin and evolution of Earth's atmosphere sensory feedback 1974 Oct p 100-106 [1305] 1953 Aug p 82-86 [824] visual thresholds, contrast perception, spatial frequency, visual perception Earth crust, continental evolution, island arcs, sedimentation, origin of 1974 Nov p 106-114 [1308] 1955 Sept p 62-66 [816] visual tracking, eye movement, feedback, visual scanning, human eye, the continents sea-floor spreading, rain, sea water composition, geochemical cycle, control mechanisms of the eye 1964 July p 24-33 salinity, carbonate, hydrologic cycle, why the sea is salt vital capacity, gas exchange, thorax, lung, pulmonary ventilation, 1970 Nov p 104-115 [839] breathing, alveoli, human physiology, mechanics and physiology of domes, hot spots, island arcs, plate tectonics ocean rifts, plumes 1966 Feb p 56-68 [1034] breathing, anatomy of lung 1976 Aug p 46-57 [920] vital statistics, abortion, population, marriage rate, death rate, birth rate, Volta, battery, electrochemistry, electric power, Galvani, Volta's menarche, infant mortality, 1538-1812, parish registers, York, 1965 Jan p 82-91 1970 Jan p 105-112 contributions, biography England 'voltage clamp' technique, giant axon, squid, nerve impulse, sodium chronic illness, morbidity, mortality rates, medical care, life 1958 Dec p 83-90 expectancy, infectious disease, degenerative diseases, causes of death pump, nerve cells voltaic pile, animal electricity, Galvani, a major discovery in physics as 1973 Sept p 76-84 1950 Feb p 40-43 well as biology vitamin A, vision, visual pigments, opsin, rhodopsin, isomerism voluntary hospitals, medical economics, medical care, public funds 1967 June p 64-76 [1075] municipal hospitals, proprietary hospitals, metropolitan medical vitamin A deficiency, electroretinography, night blindness, opsin, 1965 Jan p 19-27 economics in New York City rhodopsin, bright-light exposure, retinitis pigmentosa, night Volvox, cell aggregation, metazoa, between single celled and multi-celled 1966 Oct p 78-84 [1053] blindness in rat, action of vit A on eye 1950 May p 52-55 vitamin B12 synthesis, trace elements, cobalt, desert ecology, land organisms 1957 Apr p 68 von Neumann, obituary reclamation, agricultural technology, reclamation of infertile von Neumann machine, automata theory. Turing machine, brain circuitry 1959 Jan p 97-106 1955 Apr p 58-67 Austrialian land computer design 1949 Feb p 29 Vitamin B14, shows anti-tumor action feedback, computer science, automata theory, Turing machine, selfvitamin D, steroid hormones, sex hormones, cholesterol, cortisone reproducing machine, 'artificial living plants' 1956 Oct p 118-126 1955 Jan p 52-60 [8] voodoo lily, insect attractant Arum family, carnivorous plants. calcium metabolism, parathyroid hormone, phosphate metabolism, 1966 July p 80-88 1961 Apr p 56-63 [86] respiration osteogenesis, parathyroid function vortex, computer applications, fluid dynamics, computer modeling. cancer, ultraviolet radiation, melanocytes, suntanning, epidermis, skin 1965 Mar p 104-110 scaling, wind tunnel, computer graphics 1968 July p 38-46 feedback, edge tone, aerodynamic whistles, hole tone, sound waves air pollution, rickets, ultraviolet radiation, osteogenesis, calcium whistles, flutes, organs and rocket engines 1970 Jan p 40-46 1970 Dec p 76-91 [1207] metabolism, epidemiology, sunlight vortex ring, quantum mechanics, superfluidity helium, macroscopic artificial light, biological clock, sunlight, suntanning, body's response 1964 Dec p 116-122 quantum effects quantized vortex rings 1975 July p 68-77 [1325] voters' attitudes, public opinion, voting behavior, correlation an ilysis,

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hale population, low kill-quota urged	1965 June p 58	US joins	1948 July p 30
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	1953 July p 50–59	epidemiology, 'nver blindness' in Africa	
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	1959 Jan p 63	wildlife conservation, crippled goose, air-lifted to C	
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